

19980905.qrp v01_n205.qrs.980905

Date: Sat, 5 Sep 1998 19:03:17 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 1205

QRP-L Digest 1205

Topics covered in this issue include:

- 1) [19371] RE: morse code as a foreign language?
by hsilver@pyx.net
- 2) [19372] Re: not QRP, but funny
by "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
- 3) [19373] Re: DK3
by Ab7wy@aol.com
- 4) [19374] RE: Power Cable for TS130S? / B-17G
by cy r currier <crc3@telplus.net>
- 5) [19375] Re: morse code as a foreign language?
by Ab7wy@aol.com
- 6) [19376] Re: Basic Transistor Modeling In Solid State Design
by Chris Trask <ctrask@primenet.com>
- 7) [19377] SST
by Ron <rong@slip.net>
- 8) [19378] ATTN: SGC-2020 OWNERS
by Ed Tanton <n4xy@att.net>
- 9) [19379] Tesla's last laugh...
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- 10) [19380] Re: Basic Transistor Modeling In Solid State Design
by "Randy Jouett" <nop@swbell.net>
- 11) [19381] Solid State Design...
by Mighty Mik <mitymik@hooked.net>
- 12) [19382] RE: SGC-2020 owners...
by jcs4us@cosmoaccess.net
- 13) [19383] Re: Regency TR-1 pocket radio
by rrucker@clark.net (Dick Rucker)
- 14) [19384] QRP at 1 watt &c
by nilsbull@juno.com (Nils R Young)
- 15) [19385] transistor books
by "Jerry W. O'Dell" <jwodell@ameritech.net>
- 16) [19386] CQ K5FO
by gsurrency@juno.com (Gary L Surrency)
- 17) [19387] CW debates
by gsurrency@juno.com (Gary L Surrency)
- 18) [19388] Re: ATTN: SGC-2020 OWNERS
by "Randy Jouett" <nop@swbell.net>
- 19) [19389] Re: Basic Transistor Modeling In Solid State Design

- by Chris Trask <ctrask@primenet.com>
- 20) [19390] Re: CW debates
by olyellr@iglou.com
- 21) [19391] RE: Solid State Design...
by Denton Bramwell W7DB <Denton@Bramwell.Org>
- 22) [19392] Re: transistor books
by Chris Trask <ctrask@primenet.com>
- 23) [19393] SST Labeling
by wa8rxi@juno.com (Rick Arzadon)
- 24) [19394] Re: ND1U special event
by David Fouchey <dafouche@jax-inter.net>
- 25) [19395] Re: transistor books
by "Randy Jouett" <nop@swbell.net>
- 26) [19396] Re: transistor books
by "Randy Jouett" <nop@swbell.net>
- 27) [19397] FS- HW-7 & PSUPPLY
by KG2IM@aol.com
- 28) [19398] Ten Tec 252 PS Questions
by Pat Byers <pbyers@rttinc.com>
- 29) [19399] Re: Basic Transistor Modeling In Solid State Design
by "Randy Jouett" <nop@swbell.net>
- 30) [19400] Re: Solid State Design...
by "Randy Jouett" <nop@swbell.net>
- 31) [19401] ScQRPion Meeting tomorrow
by flydnq7x@primenet.com (Floyd Smithberg)
- 32) [19402] RE: Ten Tech 252 PS questions
by "Prof. Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
- 33) [19403] Ten Tec 251, NOT 252
by Pat Byers <pbyers@rttinc.com>
- 34) [19404] Re: Solid State Design...
by "George T. Baker" <w5yr@swbell.net>
- 35) [19405] Re: morse code as a foreign language?
by Paula Bailey <pmbail01@ox.slug.louisville.edu>
- 36) [19406] QRPTTF
by "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
- 37) [19407] Re: CW debates
by gsurrency@juno.com (Gary L Surrency)
- 38) [19408] Morse Code as A Foreign Language---Yes
by "Ken & Linda Burrough" <ne0c@1st.net>
- 39) [19409] HW-7 Mods QST jan 1974
by Niels Jensen Kristjansson <nkristja@cadvision.com>
- 40) [19410] Depth of Antenna Knowledge at W4RNL Home Page de AL7FS
by "Jim Larsen (AL7FS)" <larsennc@alaska.net>
- 41) [19411] Re: transistor books
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 42) [19412] Re: Depth of Antenna Knowledge at W4RNL Home Page de AL7FS
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 43) [19413] Will a Kenwood TS-870 do Qrp ??

by Fred Bennett N9TA <n9ta@bluemarble.net>
44) [19414] FS: HW-8 Maua1
by "William C. Robbins" <billrobb@net-link.net>
45) [19415] RE: Basic Transistor Modeling In Solid State Design
by Sam Billingsley <SBillingsley@usaninc.com>
46) [19416] W5QJR ANTENNA?
by ARDUJENSKI@aol.com
47) [19417] Re: CQ K5F0
by "John J. McDonough" <jjmcd@tm.net>
48) [19418] ANTENNEX ARCHIVE?
by ARDUJENSKI@aol.com
49) [19419] Re: transistor books
by Chris Trask <ctrask@primenet.com>
50) [19420] qrp afield
by "K. Babcock" <casey@mufn.org>
51) [19421] 300 ohm ladderline availability
by "Kevin F. Glynn" <kfglynn@prodigy.net>
52) [19422] SG-2020
by Denton Bramwell W7DB <Denton@Bramwell.Org>
53) [19423] Folded Dipole Antenna Question
by Chris Cartwright <ccart@dns.vidtel.com>
54) [19424] Re: Depth of Antenna Knowledge at W4RNL Home Page de AL7FS
by "Jim Larsen (AL7FS)" <larsennc@alaska.net>
55) [19425] Sprint
by Ed <edn4pk@voyageronline.net>
56) [19426] Re: SG-2020
by n5inz@juno.com (John M Andrews)
57) [19427] Re: Sprint
by Hank Kohl K8DD <k8dd@contesting.com>
58) [19428] Update on Depth of Antenna Knowledge at W4RNL
by "Jim Larsen (AL7FS)" <larsennc@alaska.net>
59) [19429] Re: morse code as a foreign language?
by n2tpa@juno.com (Bill d Lazure)
60) [19430] Chuck and other stuff
by gsurrency@juno.com (Gary L Surrency)
61) [19431] Re: (NERDS)USE OF COAX
by w4bws@juno.com (Donald E Sanders)
62) [19432] Re: morse code as a foreign language?
by w4bws@juno.com (Donald E Sanders)
63) [19433] Re: morse code as a foreign language?
by Monte Stark <ku7y@dri.edu>
64) [19434] 52,000 miles/watt today on 40Meters.
by we6w@juno.com (Ed Loranger)
65) [19435] SG-2020 chirp
by Denton Bramwell W7DB <Denton@Bramwell.Org>
66) [19436] Re: ATTN: SGC-2020 OWNERS
by n2tpa@juno.com (Bill d Lazure)
67) [19437] Re: transistor books

by "George T. Baker" <w5yr@swbell.net>

68) [19438] Re: Will a Kenwood TS-870 do Qrp ??
by "George T. Baker" <w5yr@swbell.net>

69) [19439] dan's small parts
by Roger Braker <msebrakr@telepath.com>

70) [19440] Re: transistor books
by "Randy Jouett" <nop@swbell.net>

71) [19441] MORSE, LANGUAGE OR DISEASE?
by jmbrown@edge.net (JERRY BROWN)

72) [19442] Re: Sprint - questions
by Bob Painter <turnkey@exo.com>

73) [19443] Battery tasting & noise blanker queskins, among other
meanderings . . .
by nilsbull@juno.com (Nils R Young)

74) [19444] Re: MORSE, LANGUAGE OR DISEASE?
by "J. Skalski" <jskalski@acsu.buffalo.edu>

75) [19445] Lets try 15 and 10 mtrs
by Sam Billingsley <SBillingsley@usaninc.com>

76) [19446] Re: Update on Depth of Antenna Knowledge at W4RNL
by Ed <edn4pk@voyageronline.net>

77) [19447] Re: Sprint - questions
by Ed <edn4pk@voyageronline.net>

78) [19448] Re: QRPCers reflect mismatch
by marion@montana.com

79) [19449] Re: Downtime at the UTK system
by "L. B. Cebik" <cebik@utkx.utcc.utk.edu>

80) [19450] Re: morse code as a foreign language?
by nhoop@centuryinter.net (N H)

81) [19451] Thoughts on 12V accessory plugs & connectors
by Dave Willey <dave@cds1.net>

82) [19452] Sprint??
by tom whalen <whalen@swcp.com>

83) [19453] Austin (TX) QRP Club Meeting Next Saturday 9/12
by Glen Reid <k5fx@flash.net>

84) [19454] Re: Sprint??
by Chris Cartwright <ccart@dns.vidtel.com>

85) [19455] Re: Update on Depth of Antenna Knowledge at W4RNL
by "Jim Larsen (AL7FS)" <larsennc@alaska.net>

86) [19456] Re: Sprint??
by Paul Helbert <phelbert@rica.net>

87) [19457] Re: Sprint??
by Monte Stark <ku7y@dri.edu>

88) [19458] Re: Power Cable for TS130S? / B-17G
by af852@rgfn.epcc.edu (William R Colbert)

89) [19459] This is "Sprint" weekend!
by Hank Kohl K8DD <k8dd@contesting.com>

90) [19460] Re: transistor books
by "Randy Jouett" <nop@swbell.net>

- 91) [19461] Rateing your antenna building skills.
by Steven Weber <kd1jv@moose.ncia.net>
- 92) [19462] 2250Z, 15 mtrs is open and nobody will answer me.
by "Jim Larsen (AL7FS)" <larsennc@alaska.net>

Date: Fri, 4 Sep 1998 19:04:26 -0400 (EDT)
From: hsilver@pyx.net
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [19371] RE: morse code as a foreign language?
Message-ID: <Pine.LNX.3.95.980904183357.32118C-100000@matrix.pyx.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 4 Sep 1998, Hulbert, Nick wrote:

> And to think it all came about by a group of people who just didn't
> want to learn that stinkin' code!!

[SNIP]

> Those who don't like that statement are those who have not
> achieved it nor care to work for that achievement.

In retrospect, my reply should have also mentioned, the point of my post was not a criticism of learning morse code, but a criticism of using the SPEED at which one can do CW, as a criterion in some countries between one level of license and another. My first post on this made that point quite clear.

Again, for the reading challenged, I am not suggesting to do away with Morse. Again for the same folks that have difficulty understanding, I am questioning the rationale of using the various speeds in which one can perform cw keying as being a criterion between license levels in some places.

As an example, for an older adult to go from say, 13 WPM to over 20 WPM as was or may well still be the case and a criterion in the United States, seem to have little to do with applying themselves or a willingness to learn.

Is it just me or is the "screw everyone else, I've got mine" attitude more prevalent amongst those with quicker keying skills ? It seems to be a bit short sighted in my opinion. Then again, I would wonder if the same attitude carries over to other attitudes within the lives of these people. Since they need no one else, because "they have theirs", why would they

need to cw with anyone else or the mailing list to contact others for that matter ? After all, they have theirs.

Rationalizing public radio spectrum for use by a very small group based on their ability to key quicker than others, I say again, does not seem to be defensible in the long term given the pressure by competing commercial interests.

At one time when most of us were younger we could perform mental arithmetic calculations faster than we might be able to now. That doesn't necessarily mean that an eight year old is better mathematically equipped than say, a 60 year old university professor who teaches linear programming and mathematics ?

Calculators can be used for calculations on amateur examinations. What if there were no batteries ? What if, what if...what if indeed...

Harley Silver - Toronto.

Date: Fri, 4 Sep 1998 17:02:12 -0600 (CST)
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [19372] Re: not QRP, but funny
Message-ID: <Pine.OSF.4.02A.9809041700300.7372-100000@duke.usask.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Here is another one to ponder. (Same procedure as below.)

Can not buy anything.

On Fri, 4 Sep 1998, Denton Bramwell W7DB wrote:

> Open Word, and type:
>
> I'd like to see Bill Gates dead.
>
> Highlight the sentence, and invoke the thesaurus.
>
>

+-----+

| Brian Buydens, Computing Services, University of Saskatchewan |
| email: Brian.Buydens@usask.ca http://duke.usask.ca/~buydens |
| VE5RDV |

+-----+
| DO NOT ADD ME TO ANY MAILING No keyboard present |
| LISTS WITHOUT MY CONSENT !!! Hit F1 to continue |
| Zen engineering? |
+-----+

Date: Fri, 4 Sep 1998 19:23:12 EDT
From: Ab7wy@aol.com
To: qrp-1@Lehigh.EDU
Subject: [19373] Re: DK3
Message-ID: <1af351c9.35f07660@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

In a message dated 98-09-04 10:31:13 EDT, you write:

<< > What is a DK3? >>

>

> DK3 is a german class B license....73, Adam, AB7WY

>

Not really...at least in the context of the list. It's a screwdriver type antenna, for which there has been a group buy organized.

Bob Hightower KI7MN <http://www.dancris.com/~ki7mn>

>>

oops...sorry about that, i guess its the dxer in me reading that post...maybe im the one who should be asking what a DK3 is. ok, me big dum dum...me go away now.

73.....Adam, AB7WY

Date: Fri, 4 Sep 1998 19:24:52 -0400
From: cy r currier <crc3@telplus.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>, "'dbrunner@nyx.net'"

<dbrunner@nyx.net>
Subject: [19374] RE: Power Cable for TS130S? / B-17G
Message-ID: <01BDD839.D5274CE0@bgr105.lobster.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

if i recall the bc348 was complete in itself. quite a sensitive rx. =
broad as a barn, though. i used one as a novice. took an if tap and ran =
to a standard broadcast radio (the audio was weak and someone got in =
there w dikes). i think it only went to 18 mcps. maybe started at 2 mcps =
. there was a p/s section which could be changed (slide in) for 117 vac =
or
dc from the plane. could tu be a transmitting unit?????
i thought they used the arc series in planes as they were more compact.
about the same vintage but maybe the 348 better met the needs of a =
strategic bomber. cy - k1tes

From: David and Connie Brunner
Sent: Friday, September 04, 1998 12:06 PM
To: Low Power Amateur Radio Discussion
Subject: Power Cable for TS130S? / B-17G

Howdy,

Have any of you folks made up a power cable for a 130S? The
standard one is way heftier than I need. Makes sense since it's a 100W
rig. Is there a particular Molex-type connector I should look for? Don't
particularly want to drag the rig into TechAmerica to find a plug that=20
fits....

Just returned from seeing the Confederate Air Force's B-17G -
"Sentimental Journey" at a nearby airport. Took the \$4 tour - well worth
it. The thing is restored right down to the radios. One was a BC348
(rcvr?) and another was a TU-9 (tuning unit?). Mounted on the radio
operator's table was a straight key. What can now be accomplished with a
handheld radio required a couple of guys to carry back in the "old"
days... and that's just the receiver! A very nice looking aircraft -
especially when it did a flyby before landing. A tribute to those who
flew them "for real". (Love the sound of those round engines, too).

Tnx for the BW

David, KE0AZ

David and Connie Brunner
Aurora, CO.

Date: Fri, 4 Sep 1998 19:28:05 EDT
From: Ab7wy@aol.com
To: qrp-1@Lehigh.EDU
Subject: [19375] Re: morse code as a foreign language?
Message-ID: <77f217cb.35f07785@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Arnold, i was told once that it indeed WAS considered a separate language. i havent personally seen any documentation to back it up...but i would think so considering it is information manually passed between individuals, and unless you learn the "language" it is foreign sounding. a reflector to post to on this would be CW@qth.net.

73....Adam, AB7WY

Date: Fri, 4 Sep 1998 17:13:05 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Randy Jouett <nop@swbell.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [19376] Re: Basic Transistor Modeling In Solid State Design
Message-ID: <Pine.BSI.3.96.980904170305.18161A-1000000@usr04.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 4 Sep 1998, Randy Jouett wrote:

>
> >From what you describe, why bother with a short article.
> >There is a very good textbook by Streetmen which describes
> >the physics of the transistor very clearly. I think
> >the title was something like Semiconductor Devices.
>
> Tnx for the info, Conway! Any book names or authors will help a bunch.
>

Here's a partial list of books that will help:

1. Valdes, L.B., "The Physical Theory of Transistors," McGraw-Hill, 1961.

- [illegible]

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Date: Fri, 04 Sep 1998 17:22:13 -0700

From: Ron <rong@slip.net>
To: qrp-l@Lehigh.EDU
Subject: [19377] SST
Message-ID: <35F08435.2D3A@slip.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I am about to begin building my SST. Any advise from those who have completed the task already? Just wondering if everything I need to know is in the kit.

Date: Fri, 04 Sep 1998 20:33:38 -0400
From: Ed Tanton <n4xy@att.net>
To: QRP-L Reflector <qrp-l@Lehigh.EDU>
Subject: [19378] ATTN: SGC-2020 OWNERS
Message-ID: <3.0.5.32.19980904203338.00bb7e10@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello everyone... I am writing this to poll the owners of the SGC-2020 regarding their transceiver's original condition-especially with regard to the chirp-as well as other faults shared by most-if not all-owners. I am also interested in learning summaries of their treatment by SGC personnel, and the results of their attempts at repairs.

My intention is to compile these anecdotes in order to ascertain and document just how many owners have experienced these problems as a commonality, and seek appropriate remedies from SGC, Inc. In other words: SGC appears to be telling us that we must pay to correct their own original design defect(s) inherent in any but the most recent production of SG-2020s. This is not right.

I had planned to simply send in my '2020 and effectively PAY for the repairs through purchase of the Extended Warranty, and THEN argue with SGC management about the correctness-or not-of that. I called SGC today to learn what procedure I should follow in order to do that. I learned that: I could NOT send in my '2020 and a MO for the \$140 plus return postage. I must first send in the Extended Warranty application and payment, and THEN SGC will send me the appropriate paperwork for said warranty, and THEN I can send in my '2020 for repairs. I then-nicely... it's not the little girl answering the phone's fault-commented that I thought perhaps I had better speak to someone about this, and about the costing on a factory-defect in the first place. I was asked to wait, and was put on hold. A hold that terminated several minutes later with a dial tone. So here I am instead.

This situation reminds me of the joke about the mule driver and the baseball bat... first you've got to get their attention. I would like for the '2020 owners out there to contact me privately, by email, and let me know their stories. I need rational objectivity here. I need to know that you, as an owner, have the chirp the software upgrade corrects, and that SGC has said they will not repair it for free (even with postage paid both ways.) I would like to learn if anyone has challenged SGC about the replacement of EPROMs not requiring a return trip to the factory by the rig.

Please keep in mind where I am coming from on this: I like my '2020 a lot. I do not DISlike SGC so much as I feel they have not lived up to their ordinary obligations here, with respect to the design and implementation of this transceiver. It does not matter to any of us one bit HOW LONG we may have owned our '2020s, this defect was present on all of them from day 1. This rigamarole they explained by phone about the Extended Warranty was just one more example in a long history of poorly handled procedures and actions by SGC, related to this transceiver and Amateur Radio, and became the proverbial last straw for me.

That said... what I want, in the best of all worlds, is for SGC to send me (and everyone else owning a pre-v.1.04 firmware release), WITHOUT CHARGE, a new set of EPROMs (e.g. v1.04 I believe); OR I would like a brief explanation explaining why a person of average or better technical competence (who CHOOSES to do so) could not replace these ICs him (or her) self. I haven't actually looked in there-perhaps they soldered them in? (Gimme a break!!!) I will cheerfully send them the old set of EPROMs in return-if they so request.

I am sending a copy of this to SGC Marketing. I think that's fair. I COULD have written this privately-but the quantity and nature of correspondence I have ALREADY HAD pretty much precludes that... not only am I not alone in this, but it's a crowd.

The SGC-2020 is a fine rig. It has many excellent features and qualities. The original SGC-2020 was defective at least to the extent that ALL of the units had a slight chirp. This is an original design defect, that the manufacturer should feel compelled to correct in the name of pride of manufacture, or at the least, simple fairness. This original defect is not conjecture on our part, it is an admitted-fact by SGC.

I would like to ask SGC that they make this effort. I would like to suggest that hanging up on people-even through delays-on-hold-is not a good business practice. I have every intention of following through with this survey, compiling the data into a solid class, and taking whatever action is required for the owners' satisfaction.

OWNERS: Let me hear from you.

 Ed Tanton N4XY EMAIL: n4xy@att.net
 189 Pioneer Trail
 Marietta, GA 30068-3466 TEL: (770)579-3933 V/MBX/FAX

INTERESTS: QRP BoatAnchors Test Equipment Photography
 CW: 99.9% Mercury Paddle # 0214 QRP to 150W: 95%

~~~~~  
 "Think you can, think you can't: either way you're right!" Henry Ford  
 ~~~~~

 Date: Fri, 04 Sep 1998 17:42:39 -0700
 From: Mighty Mik <mitymik@hooked.net>
 To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
 Subject: [19379] Tesla's last laugh...
 Message-ID: <35F088FF.F639773A@wenet.com>
 MIME-Version: 1.0
 Content-Type: text/plain; charset=us-ascii
 Content-Transfer-Encoding: 7bit

the next time you plug something into the wall...think of who invented
 alternating current. Not to mention that the transformer in your TV and
 monitor work on principals first explored by Tesla (high frequency ac).
 I think it was Tesla that set the 60 Hz standard...

 Date: Fri, 4 Sep 1998 19:46:14 -0500
 From: "Randy Jouett" <nop@swbell.net>
 To: "Chris Trask" <ctrask@primenet.com>, "Low Power Amateur Radio Discussion"
 <qrp-1@Lehigh.EDU>
 Subject: [19380] Re: Basic Transistor Modeling In Solid State Design
 Message-ID: <00a201bdd866\$96c29400\$210aa8c0@aldebran>
 MIME-Version: 1.0
 Content-Type: text/plain;
 charset="iso-8859-1"
 Content-Transfer-Encoding: 7bit

-----Original Message-----
 From: Chris Trask <ctrask@primenet.com>

To: Randy Jouett <nop@swbell.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Friday, September 04, 1998 7:13 PM
Subject: Re: Basic Transistor Modeling In Solid State Design

>On Fri, 4 Sep 1998, Randy Jouett wrote:

>

>>

>> >From what you describe, why bother with a short article.

>> >There is a very good textbook by Streetmen which describes

>> >the physics of the transistor very clearly. I think

>> >the title was something like Semiconductor Devices.

>>

>> Tnx for the info, Conway! Any book names or authors will help a bunch.

>>

>

>Here's a partial list of books that will help:

<snip>

Tnx for the info, Chris! I'll be back on here when I'm finished reading all of this...see you guys in a few years :) :) :)....Again...THANKS!

Randy "Zippin mouth shut on current 'is cw a language' thread" Jouett
AB5NI

P.S.

Hey. When that thread is over, let's talk about:

- 1) Wayne Green's Editorials.
- 2) Religion and ham radio.
- 3) Politics and ham radio.
- 4) Rush Limbaugh and ham radio.
- 5) ATV/Slow-scan pornography and ham radio.
- 6) Ham's taking over the CB band with 1.5kw and VFO capabilities.
- 7) Cellular phone freqs being blocked in scanners.
- 8) Name the argument and non-qrp related subject.

Hmmmm...wonder which one of those wud generate the most heat...which wud be thermo-coupled to a qrp rig, of course :) :^)

nop@swbell.net

Date: Fri, 04 Sep 1998 18:05:52 -0700
From: Mighty Mik <mitymik@hooked.net>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [19381] Solid State Design...
Message-ID: <35F08E70.35EB8903@wenet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

> BTW, has SSD been updated recently? With all the newer active and
>passive mixers, Up conversion, SMD's, and DDS stuff flying around these

>days, one would think that this book will be updated....or has it?

I have it, and think it needs an update as well. No NE602 stuff as i
recall.

Date: Fri, 04 Sep 1998 18:11:50 -0700
From: jcs4us@cosmoaccess.net
To: qrp-1@Lehigh.EDU
Cc: sgc@sgcworld.com
Subject: [19382] RE: SGC-2020 owners...
Message-ID: <3.0.32.19980904181146.00b052c4@wingate>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello all... Ed is correct united we stand divided we fall.. If SGC can
get away with dealing with you guys individually they can convince you
that only a few of you have a problem... But if you pack together they
won't be able to get away with it... I think they are being very
irresponceable with there actions so far.. For a company that is

"No Compromise Communications" Ha that is a laugh...

(Manufacture of the Worlds Finest HF Transceivers, Antenna Couplers, Antennas,
and Accessories for 28 Years) I sure would hate to see second best...

I think maybe they get there buisness strategies from our boy from Arkansas...

Don't ever tell the truth just Lie, and if that don't work Lies to cover
that Lie..

I am also sending this to SGC... I think they should make good on there screw-up.. Telling you guys it was going to be worth the wait.. Yeh Bill tell us another one why don't you...

And like Ed said it is not the girl answering the phone it is the guy taking the deposit to the bank that needs to fix this problem... Alan

Date: Fri, 4 Sep 1998 21:16:56 -0900
From: rrucker@clark.net (Dick Rucker)
To: "JUNIUS B FOX" <w5hir@gte.net>
Cc: qrp-1@Lehigh.EDU
Subject: [19383] Re: Regency TR-1 pocket radio
Message-ID: <v02140b07b2167fff4c6c@[207.196.47.58]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>Dick, There is another fascinating story about that radio. I was with TI
>at the time that radio came off of the drawing board. In fact, I had one of
>the first ones that hit the market. I forget the name of the fellow that
>designed the radio at TI, but at the time, we were on fairly good relations.

"Crystal Fire" doesn't mention the designer by name, since the focus of the book is on the development of transistors as devices. It does say that it was Pat Haggarty who was behind the push to develop an all-transistor pocket radio. As Mark Shepard (the fellow at TI responsible for production of transistors for these radios) put it, "Pat wanted to get something with some volume to it, and to call the world's attention to [the transistor]." He certainly succeeded in that!

>That radio wasn't the only thing that TI was anxious to produce. We, at the
>Lemon Ave. facility in Dallas, were instructed to
>go to the "production" lines and get as many transistors to play with
>as we wanted. I still have a sack of unmarked ones from those days.
>We (a bunch of hams) visited the lines often and culled those transistors
>we obtained for the highest hfe we could get. We made
>quite a few of 7 mhz transmitters and receivers out of the " Exceptional"
>transistors.

Your experience was similar to mine at Hewlett-Packard in the late 50's. I was the production engineer responsible for HP's use of vacuum tubes and semi-conductors in new designs. In those days, because the characteristics of semi-conductor diodes (and "triodes") were so poorly controllable in production, we had to sort many types into sub-types according to their current gain, leakage current, etc. At that point, they became -hp-

devices their own part numbers and color codes.

And, yes, I still have a couple of boxes of semiconductors, both silicon and germanium, and vacuum tubes, mostly twin-triodes, left over from my component engineering days.

>ps. did you know that Texas Instruments was known as General Instruments at
>one time, until General Instruments made Pat change the name of the company
>to Texas Instruments..

According to "Crystal Fire" (p206), "Texas Instruments began during the Depression as Geophysical Services, Inc. (GSI), a tiny company producing reflection seismographs used for oil prospecting... When [WW II] ended, the company decided to expand aggressively into military electronics... GSI hired Pat Haggarty away from the Navy's Bureau of Aeronautics..." It was Pat Haggarty who decided that GSI should get interested in semiconductors.

"Renamed Texas Instruments in 1951, the company approached Western Electric for a license to manufacture the new junction transistor..."

Best, Dick

Richard A. "Dick" Rucker
City of Fairfax, VA
Amateur Radio KM4ML

Date: Fri, 4 Sep 1998 20:30:02 -0500
From: nilsbull@juno.com (Nils R Young)
To: QRP-L@Lehigh.EDU
Subject: [19384] QRP at 1 watt &c
Message-ID: <19980904.203912.6510.0.nilsbull@juno.com>

Gang of crazies,

I spent the first part of the afternoon being badgered. Then I got home, spent the second part of the afternoon looking for my solder slurper, which I had put in a drawer, which I had poured out onto the floor three or four times before I finally saw the slurper on the floor. Which meant that I'd had it in my hands at least three times before I found it.

Agnosia or outright rage. Take your pick.

Then I fiddled with some stuff in the Sierra, getting more 'n 5 watts out on 40 and nearly that on 30. At which point my neighbor came over and we talked about recycling, consumerism, Ayn Rand & the fall of the Soviet hegemony. Then I went in the house, got a drink, came back out and turned on the TR7. There was a lot of stuff.

So I turned off the TR7 & turned on the Sierra. And heard a very tiny signal around 7040. It was NF0R calling CQ. I answered and we talked. Dave was 559. Me was 559. He was waiting for the final McGwire hit. I was waiting for the local cable system to let me watch cricket.

I was jealous, actually. There I was, sittin' in the outhouse with 35 ft of butchered up tower holdin' up what's left of a G5RV and some other crap, runnin' the 5 watts out of the Sierra. Dave was runnin' 1 watt into a SLV.

I did figure out, after we'd signed, that what I was hearing on the SIerra sounded like hell on the TR7. The ABX is such a nice feature. The switched CW filter in the TR7 is about as narrow, but it's just not the same. Probably for the same reasons that I couldn't find the solder slurper the first three times I picked it up.

A matter of perspective.

And Cindy left me a couple beers. Life is good. Bukowski was right. The dragons again.

73
Nils

Nils R. Bull Young
La Estancia de los Guajolotes Sonrientes :: The Grinnin' Turkey Ranch
WB8IJN &c :: The Tagalong Press :: email to: nilsbull@juno.com
<http://www.geocities.com/Athens/Olympus/9172>

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 04 Sep 1998 21:25:44 -0700
From: "Jerry W. O'Dell" <jwodell@ameritech.net>

To: qrp-1@Lehigh.EDU
Subject: [19385] transistor books
Message-ID: <19980905022355.BCXI27627@[199.179.189.107]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

As an old college prof, I have come to realize that some texts are simply awful and not understandable, and some are wonderfully easy and useful.

I wonder how these texts all match up to the criterion of "understandability". I give you my word that 90% of all college technical texts are simply incomprehensible. They are written for the pros, not the students.

Fellow named something like Coughlin wrote some fine ones, and I always liked Peter Stark.

Grumble, grumble, grumble.

73 jerry w8gnd

Date: Fri, 4 Sep 1998 18:27:09 -0700
From: gsurrency@juno.com (Gary L Surrency)
To: qrp-1@Lehigh.EDU
Subject: [19386] CQ K5FO
Message-ID: <19980904.182710.9694.1.gsurrency@juno.com>

Has anybody heard from Chuck lately? Or has he succumbed to the 108 degree heat in Dallas? =:-o

72, :-)

Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)

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Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 4 Sep 1998 18:25:06 -0700
From: gsurrency@juno.com (Gary L Surrency)
To: qrp-l@Lehigh.EDU
Subject: [19387] CW debates
Message-ID: <19980904.182710.9694.0.gsurrency@juno.com>

For God's sake, let's not start up this CW debate again on this list.
This horse has been beat to death many, many, times before. Go to the CW
reflector if you want to discuss this topic. PLEASE!

72,

Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 4 Sep 1998 20:33:25 -0500
From: "Randy Jouett" <nop@swbell.net>
To: <n4xy@att.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [19388] Re: ATTN: SGC-2020 OWNERS
Message-ID: <00ab01bdd86d\$2e406950\$210aa8c0@aldebran>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: Ed Tanton <n4xy@att.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Friday, September 04, 1998 7:38 PM
Subject: ATTN: SGC-2020 OWNERS

>The SGC-2020 is a fine rig. It has many excellent features and qualities.
>The original SGC-2020 was defective at least to the extent that ALL of the
>units had a slight chirp. This is an original design defect, that the
>manufacturer should feel compelled to correct in the name of pride of
>manufacture, or at the least, simple fairness. This original defect is not
>conjecture on our part, it is an admitted-fact by SGC.
>

>I would like to ask SGC that they make this effort. I would like to suggest
>that hanging up on people-even through delays-on-hold-is not a good
>business practice. I have every intention of following through with this
>survey, compiling the data into a solid class, and taking whatever action
>is required for the owners' satisfaction.

>

>OWNERS: Let me hear from you.

>73

Good luck, Ed. Let me go out on a limb here. From the look and price of their equipment and from the way they are treating their customers (in this case), I'd be willing to bet that 95% of their income comes from the military or some form of government contract.

A lot of people in the military and federal government will just say, "Is it mil spec? Do we need it? Well, do it! We need it." They won't even think twice about cost. Heck -- they ain't paying for it.

In other words, SGC and other military/government contractors are use to dealing with people in the military/government manner. This is standard business practice for SGC. This is how they do it, and this is how they've always done it, BUT...here come the hams.

Let's say that I'm right about this 5% sold to hams or whoever. I'd bet that if you called SGC and asked em' who gave them the most trouble, it would be...drum roll... hams. Why? Because we are a technical community and know when we're getting screwed, and this is our personal cash on the line. Don't get me wrong on this....there are a lot of military and government guys out there that know beyond a shadow of a doubt that they are getting ripped off; however, they tend to look the other way when it's not their money. It's not quite this bad in the computer business world, but almost. You wouldn't believe -- maybe you would -- how often this type of BS goes on in the oil biz.

There is another side to this, of course. SGC builds mil-spec rigs. Mil-spec rigs are not cheap. If you can't afford to get it fixed, don't buy it. (Lexus or BMW's aren't cheap, and repair bills are expensive.) However, I don't think that this applies here because SGC knows that their rig has problems.

Let's just say that SGC is a ham-rig manufacturing company with a government mil-spec attitude and leave it at that.

Best of luck to you getting your rig fixed!

Randy AB5NI
nop@swbell.net

P.S.

I'll buy one when they get the bugs out...and an Elecraft K2 ! :^)

Date: Fri, 4 Sep 1998 18:53:25 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Randy Jouett <nop@swbell.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [19389] Re: Basic Transistor Modeling In Solid State Design
Message-ID: <Pine.BSI.3.96.980904184913.21264B-100000@usr02.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 4 Sep 1998, Randy Jouett wrote:

>
> >On Fri, 4 Sep 1998, Randy Jouett wrote:
> >
> >>
> >> >From what you describe, why bother with a short article.
> >> >There is a very good textbook by Streetmen which describes
> >> >the physics of the transistor very clearly. I think
> >> >the title was something like Semiconductor Devices.
> >>
> >
> >Here's a partial list of books that will help:
>
> <snip>
>
> Tnx for the info, Chris! I'll be back on here when I'm finished reading all
> of this...see you guys in a few years :) :) :)....Again...THANKS!
>

Here's another one that I picked up this evening at Bookman's, in Mesa, which is one of the best modern (less than 10 years old) references I've seen on the subject:

Moschwitzer, Albrecht, "Semiconductor Devices, Circuits, and Systems," Oxford University Press, 1991.

A very thorough treatment of the mathematical models of bipolar, MOSFET,

GaAs, MESFET, and HEMT transistors. I bit expensive, but worthwhile if you're serious about the subject.

```

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    /   What's all this   \
   / extinct stuff, anyhow? \
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```

Circuit Design for the RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Fri, 04 Sep 1998 21:52:22 -0400
From: olyellr@iglou.com
To: gsurrency@juno.com, "Low Power Amateur Radio Discussion" <grp-l@Lehigh.EDU>
Subject: [19390] Re: CW debates
Message-ID: <3.0.5.32.19980904215222.008333a0@iglou.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 06:25 PM 9/4/98 -0700, Gary L Surrency wrote:

>For God's sake, let's not start up this CW debate again on this list.
>This horse has been beat to death many, many, times before. Go to the CW
>reflector if you want to discuss this topic. PLEASE!
>
>72,
>
>Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)
>

For God's sake, please don't bring it there either!

73, Mike L.

.....

de AF4LQ

FISTS #4139

99% CW OP...for the pure JOY of it.

<http://members.iglou.com/olyellr/>

.....

Date: Fri, 4 Sep 1998 19:57:29 +0100

From: Denton Bramwell W7DB <Denton@Bramwell.Org>

To: "'qrp-l@lehigh.edu'" <qrp-l@Lehigh.EDU>

Subject: [19391] RE: Solid State Design...

Message-ID: <5103124387F8D11199DD00A0C925E4B9160F@SQLMAILSERVER>

MIME-Version: 1.0

Content-Type: text/plain

W7ZOI is indeed working on a new book, which some of us refer to as "Son of Solid State Design". No clue as to when it will come out.

Wes' initial reaction to the NE602, as I recall, was, "(sniff) It's not even good enough to use in a transmitter." Since he is probably more responsible than anyone for our current state of awareness on dynamic range, and the 602 is a very poor performer in this respect, I doubt that you'll see any 602 projects in his book.

On the other hand, "Introduction to RF Design" is available through the League. It's a bit more advanced, but excellent work by the same author, and it comes with some REALLY useful software.

-----Original Message-----

From: Mighty Mik [mailto:mitymik@hooked.net]

Sent: Friday, September 04, 1998 7:06 PM

To: Low Power Amateur Radio Discussion

Subject: Solid State Design...

> BTW, has SSD been updated recently? With all the newer active and
>passive mixers, Up conversion, SMD's, and DDS stuff flying around these

>days, one would think that this book will be updated....or has it?

I have it, and think it needs an update as well. No NE602 stuff as i recall.

Date: Fri, 4 Sep 1998 18:59:23 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: "Jerry W. O'Dell" <jwodell@ameritech.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [19392] Re: transistor books
Message-ID: <Pine.BSI.3.96.980904185411.21264C-100000@usr02.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 4 Sep 1998, Jerry W. O'Dell wrote:

> As an old college prof, I have come to realize that some
> texts are simply awful and not understandable, and some
> are wonderfully easy and useful.
>
> I wonder how these texts all match up to the criterion of
> "understandability". I give you my word that 90% of all
> college technical texts are simply incomprehensible. They
> are written for the profs, not the students.
>
> Fellow named something like Coughlin wrote some fine ones,
> and I always liked Peter Stark.
>
> Grumble, grumble, grumble.
>

Having waded for years through text books of various levels, I quite agree. The list that I posted earlier is a fairly good cross-section of what's available. The more rudimentary texts, such as those found in high schools, do their best to avoid the subject of modeling and leave you with nothing of value. I won't spend a dime on those.

First year college texts are pretty good, particularly those by Cowles. I look for text books ranging from those on up.

Most of the ones I listed give a very good, if somewhat advanced, treatment of the subject of modeling, and I stick with those that deal with the hybrid-pi model, as this can be used with linear simulators, and the parameters can all be derived from manufacturer's data sheets.

Texts that deal with Ebers-Moll nonlinear models leave me in the cold, and I generally avoid them as they go into far too much detail to be of practical use to me. Semiconductor people and those writing PSpice routines indulge in them, and they are welcome to all they can

[illegible]

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Fellow QRP fans;
Built an SST and would like to paint and label the case.
In the manual is artwork for 1:1 copy to a transparency.
The question is..... How do I glue this clear plastic to the case?

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 04 Sep 1998 22:06:48 -0400
From: David Fouchey <dafouche@jax-inter.net>
To: ke6vhm@earthlink.net, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [19394] Re: ND1U special event
Message-ID: <3.0.1.32.19980904220648.00833b80@jax-inter.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Been many years since I was a Novice, and I STILL remember the warm welcome I got from those with higher class licenses. THERE IS NO SUCH THING AS JUST A LOWLY NOVICE/TECH. It's simply one way to enter into a world wide fraternity of friends.

Well said guys.

73's
Dave WA4EMR

At 11:37 AM 9/4/98 -0700, KE6VHM Frank wrote:
>Kudos Kudos Kudos to Chris - I couldn't agree more
>72 de Frank
>
><snip>
>>On Thu, 3 Sep 1998 Zenith9zn@aol.com wrote:
>>
>>> I for one am a lowly tech+ and would enjoy
>> ^^^^^^^^^^^
>>No you're NOT! You are a Radio Amateur with different band restrictions
>>and skills than I have.
>72 Chris Cartwright,
><end snip>
>
>
>
>

Date: Fri, 4 Sep 1998 21:49:55 -0500
From: "Randy Jouett" <nop@swbell.net>
To: <jwode1@ameritech.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [19395] Re: transistor books
Message-ID: <00b701bdd877\$df55b20\$210aa8c0@aldebran>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

-----Original Message-----

From: Jerry W. O'Dell <jwodell@ameritech.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Friday, September 04, 1998 8:29 PM
Subject: transistor books

>As an old college prof, I have come to realize that some
>texts are simply awful and not understandable, and some
>are wonderfully easy and useful.

And guess what. This is the main reason why I want as many author names as possible :^). And some people wonder why "DOS For Dummies" sold millions of books. If an author truly understands his or her subject matter, ease of explanation will be right at their fingertips. When was the last time you saw "use of analogy" in a university text book? I'm wondering when someone in the ham community is going to write "RF Design for the Complete Idiot." :^) :^). Talk about the number of homebrew qrp rigs and kits doubling in a heart beat :^)

>I wonder how these texts all match up to the criterion of
>"understandability". I give you my word that 90% of all
>college technical texts are simply incomprehensible. They
>are written for the profs, not the students.

I come from a family of educators, Jerry -- no need to convince me on this one :^).

It goes something like this??? "Ahem. Dr. Whatcher's name. Have you published this year? NO? Well, write about something so that you and the university looks good."

6 months later u get back to em'...."Ok, here's the manuscript." They read it. "Ummm. Dr. Whatcher's name? This book is too simple and too long, and it doesn't reflect well on yourself and the university. Do you think that you can spice it up a little and make us both look better than these other profs and universities down the road? You see, if you do it this way, we'll be able to justify the money that we are paying you. Not only that, but with our mutual advancement in the field, we'll be able to pay you more money, because more kids are going to want to attend our school. After all, the famous Dr. Whatcher's name teaches here." Is this what u are talking about, Jerry?? :^) :^)

They also have to write something that is inspirational to their peers.

Of course, by the time they get finished with it you can't read the damn thing :^). Well, you can, but it just takes a heck of a lot more effort than it should have. Some will argue that being verbose in text is time consuming, but I'm pretty sure that the majority of the readers would rather have clear and consise explanations in the books they read rather than "I'm trying to prove that I know what I'm talking about to my fellow techno-geeks" manuscripts. Oh, well. Such is the way of the dumb-butt writer, and it's a rare person that has the gift of gab and explanation in a book (shrug).

Ever notice that the difference between a good technical manuscript and a GREAT manuscript is the ease in which you can read the latter? Heck -- analogy and simplicity are usually used in the begining of electronis manuals. $V = \text{pressure}$. $I = \text{current flow of a water-works system}$. Why in the heck don't they continue this as the subject matter gets harder is what I'd like to know. Yeah...it might be 3 or 4 volumes thick instead of one, but I'd gladly pay the extra money for the other volumes. Since they would be easier to read, I'd read them twice as fast as a normal text book and finish the course with about 10 times the amount of information.

>Fellow named something like Coughlin wrote some fine ones,
>and I always liked Peter Stark.
>
>Grumble, grumble, grumble.
>
>73 jerry w8gnd

Thanks for the info...getting off soapbox, but going around to the back and standing in line again :^).

Randy AB5NI
nop@swbell.net

Date: Fri, 4 Sep 1998 21:54:28 -0500
From: "Randy Jouett" <nop@swbell.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [19396] Re: transistor books
Message-ID: <00bb01bdd878\$80844870\$210aa8c0@aldebran>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

-----Original Message-----

From: Jerry W. O'Dell <jwodell@ameritech.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Friday, September 04, 1998 8:29 PM
Subject: transistor books

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I come from a family of educators, Jerry -- no need to convince me on this one :^). It goes something like this??? "Ahem. Dr. Whatcher's name. Have you published this year? NO? Well, write about something so that you and the university looks good." 6 months later u get back to em'...."Ok, here's the manuscript." They read it. "Ummm. Dr. Whatcher's name? This book is too simple and too long, and it doesn't reflect well on yourself and the university. Do you think that you can spice it up a little and make us both look better than these other profs and universities down the road? You see, if you do it this way, we'll be able to justify the money that we are paying you. Not only that, but with our mutual advancement in the field, we'll be able to pay you more money, because more kids are going to want to attend our school. After all, the famous Dr. Whatcher's name teaches here." Is this what u are talking about, Jerry?? :^) :^)

They also have to write something that is inspirational to their peers.

Of course, by the time they get finished with it you can't read the damn thing :^). Well, you can, but it just takes a heck of a lot more effort than it should have. Some will argue that being verbose in text is time consuming, but I'm pretty sure that the majority of the readers would rather have clear and concise explanations in the books they read rather than "I'm trying to prove that I know what I'm talking about to my fellow techno-geeks" manuscripts. Oh, well. Such is the way of the dumb-butt writer, and it's a rare person that has the gift of gab and explanation in a book (shrug).

Ever notice that the difference between a good technical manuscript and a GREAT manuscript is the ease in which you can read the latter? Heck -- analogy and simplicity are usually used in the beginning of electronics manuals. $V = \text{pressure}$. $I = \text{current flow of a water-works system}$. Why in the heck don't they continue this as the subject matter gets harder is what I'd like to know. Yeah...it might be 3 or 4 volumes thick instead of one, but I'd gladly pay the extra money for the other volumes. Since they would be easier to read, I'd read them twice as fast as a normal text book and finish the course with about 10 times the amount of information.

>Fellow named something like Coughlin wrote some fine ones,
>and I always liked Peter Stark.
>
>Grumble, grumble, grumble.
>
>73 jerry w8gnd

Thanks for the info...getting off soapbox, but going around to the back and standing in line again :^).

Randy AB5NI
nop@swbell.net

Date: Fri, 4 Sep 1998 23:00:14 EDT
From: KG2IM@aol.com
To: QRP-L@Lehigh.EDU
Subject: [19397] FS- HW-7 & PSUPPLY
Message-ID: <23d6d214.35f0a93e@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7bit

For sale (again) HW-7 and matching power supply also HW-7 manual.

Please contact KG2IM@aol.com

This rig is in excellent condition and has full output.

Asking \$80.00

Tnx for reading es 72, 73 John

Date: Fri, 04 Sep 1998 21:04:18 -0600

From: Pat Byers <pbyers@rttinc.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [19398] Ten Tec 252 PS Questions

Message-ID: <3.0.5.32.19980904210418.00807700@mail.rttinc.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Hi,

I'm seeking a bit of help from the Ten Tec and power supply gurus out there.

I bought a Ten Tec Model 251 power supply from a kind Ham on this list.

It's rated at 10 amps, is a 9 in appearance, and matches my Argo.

Apparently it was designed to power the Argo and it's optional 50 watt linear.

Even though I've had it for a while, I just got around to giving it the ol' smoke test tonight. Wow, no smoke! Not a smidgen. Output is 11.8 volts but should be 13 volts, ± 0.5 volts, so it's not within spec. I had a look inside. It's been worked on a bit but otherwise looks OK. The power out connector on the back is a 6-pin Jones plug. The seller included a couple of pages of the manual which says the power out plug is 4-pin. I assume this is a modification. No big deal.

Now to the questions. There is a heavy wire from the rectifier bridge to the pass transistor. I expected that. However, the wire out of the pass transistor is substantially lighter. It looks like it's part of the original wiring harness but I think it should be a heavier gauge to match the input wire. What do you think? I haven't had much experience with high current power supplies. For all I know, there could be so much power lost in the pass transistor that it needs a heavier wire going in than out but I doubt it. I plan to change this wire real soon; don't think I can hurt anything doing that.

On the output voltage, I'm concerned that it's low. However, I haven't put a load on it yet. Do you think the voltage will come up ***with*** a load?

Logically, the voltage should remain constant until the specs are exceeded but this is a really old design so strange things might be possible. There's no mention of this in the skimpy manual but it mentions checking out the power supply with a load attached.

Any suggestions you have will be most welcome.

73,

Pat, VE6AAN

Date: Fri, 4 Sep 1998 22:10:58 -0500
From: "Randy Jouett" <nop@swbell.net>
To: <ctrask@primenet.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [19399] Re: Basic Transistor Modeling In Solid State Design
Message-ID: <00d401bdd87a\$d847dd40\$210aa8c0@aldebran>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

-----Original Message-----
From: Chris Trask <ctrask@primenet.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Friday, September 04, 1998 8:55 PM
Subject: Re: Basic Transistor Modeling In Solid State Design

> Here's another one that I picked up this evening at Bookman's, in
> Mesa, which is one of the best modern (less than 10 years old) references
> I've seen on the subject:
>
> Moschowitz, Albrecht, "Semiconductor Devices, Circuits, and
> Systems," Oxford University Press, 1991.
>
> A very thorough treatment of the mathematical models of bipolar, MOSFET,
> GaAs, MESFET, and HEMT transistors. I bit expensive, but worthwhile if
> you're serious about the subject.

Thanks again, Chris. I'm sure that a lot of people here on qrp-l will appreciate this info, too.

Randy AB5NI
nop@swbell.net

>
>

Date: Fri, 4 Sep 1998 22:33:22 -0500
From: "Randy Jouett" <nop@swbell.net>
To: <Denton@Bramwell.Org>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [19400] Re: Solid State Design...
Message-ID: <00e101bdd87d\$efc86040\$210aa8c0@aldebran>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

-----Original Message-----
From: Denton Bramwell W7DB <Denton@Bramwell.Org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Friday, September 04, 1998 9:01 PM
Subject: RE: Solid State Design...

>W7ZOI is indeed working on a new book, which some of us refer to as "Son
>of Solid State Design". No clue as to when it will come out.

This is good news!!! Praise the load! (Wud that be 50 ohms? :^))

>Wes' initial reaction to the NE602, as I recall, was, "(sniff) It's not
>even good enough to use in a transmitter." Since he is probably more
>responsible than anyone for our current state of awareness on dynamic
>range, and the 602 is a very poor performer in this respect, I doubt
>that you'll see any 602 projects in his book.

Well, that's somewhat understandable. However, I'd like to see the 602
discussed because:

- 1) It's used in a few qrp rigs.
- 2) It can be a cheap and dirty solution to some "cost effective" rig
down the road.

I have a ham friend that HATES the LM386, for instance. He wudn't use one for an audio amp if you paid him. On the other hand, it's cheaper than the LM380, and that says a lot when you're trying to design a Pixie-type rig with minimal parts count and reduced cost. Let's just say that the LM386 has its place in the world, and I hope that Wes includes the thing in the book. Hopefully, he'll give the NE602 the same consideration.....And no, Wes, we won't think that you're a crappy engineer because you put those components in the book and showed a circuit or two based upon them. Just give us some applications and remind the reader that they're junk and shud only be used in dire straights/circumstances :^) :^). "We are the sultans of...QRP." :^)

>

>On the other hand, "Introduction to RF Design" is available through the
>League. It's a bit more advanced, but excellent work by the same
>author, and it comes with some REALLY useful software.

I've heard about it, Denton. Plan to order it after Labor Day. I've also heard about those programs, too. I want it! I want it! :^)

72/73's,

Randy AB5NI
nop@swbell.net

Date: Fri, 4 Sep 1998 20:38:20 -0700 (MST)
From: flydnq7x@primenet.com (Floyd Smithberg)
To: qrp-l@Lehigh.EDU
Subject: [19401] ScQRPion Meeting tomorrow
Message-ID: <199809050338.UAA27697@smtp01.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Yep, those left in town will meet as usual...Lubys 1933 W.Dunlap 1030am.
Joe is headed for the wilderness, backpacking and Mike's on his way to KY
for a family reunion. For the rest...lots to discuss...Tuthill99, Bubba,
more contests, new gear, etc. CU ALL
73 Floyd NQ7X Phoenix ScQRPion

Date: Fri, 4 Sep 1998 23:31:42 -0300
From: "Prof. Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
To: <qrp-1@Lehigh.EDU>
Subject: [19402] RE: Ten Tech 252 PS questions
Message-ID: <01bdd875\$51e3d1a0\$LocalHost@inforhc>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Dear Pat and other users of that supply
I happen to own the HIGH Current version of that supply.
Only failure in years of heavy use was the PASS TRANSISTOR,
a single unit, that when replaced I found it was not the original
type... The pass transistor failed during a local power company
surge+ spike... which obviously exceeded the specs for
voltage tolerated by the device.
I replaced it with the only transistor available locally, a
higher
voltage rating european BU..... that is rated for 15 amps
maximum current, while the ORIGINAL was rated for 30 amps.
As I AM QRP... I don't care much... even when I crank the
rig up to 50 watts (HORROR !!! that's 10 dB above QRP max)
the supply behaves quite well.
The electrical design of the supply is quite clever... very
suited for Third World, as it does not use irreplaceable devices
!!!

My advice is that you check the following components

1. high capacity electrolytic... (old ones dry out, they may say
outside 10,000 mFd but in real life may be 2000 or 3000 mfd
if in doubt just replace with a NEW FRESH UNIT... and if it
is

a 10,000 mFd unit, replacing it with a 15,000 or 22,000 mFd
will do no harm... and the supply's filtering will be
improved without

to much stress on the bridge rectifier for the inrush current

2. check all the small transistors for possible leak
3. check the driver transistor for both leak and gain
4. if you have the time, the silicone, the mica insulator and the
patience... replace the PASS TRANSISTOR with a unit
rated for higher voltage and current... My experience with
old

solid state supplies tells that this step no 4 is a very
sound idea,

as you start the supply's new life in your shack with fresh
new electrolytics, and much more modern devices (pass

transistor ratings especially better).
Finnally... never test those supplies at NO LOAD... they may
oscillate and be damaged... use a light load , for about 1 amp
current to start, then test at the 5 amp level , and end the
test at the 10 amp level (even if it is a 9 amp supply)
Those tests will tell you how it is working
To minimize voltage drop, do change the cabling from the
bridge rectifier to the pass transistor, and from the pass
transistor
to the output ... and BE SURE that your output connector can
handle the maximum current without heating and melting !!!

Arnie Coro
Host of Dxers Unlimited
Radio Habana Cuba
PO Box 6240 Habana Cuba
e-mail: arnie@radiohc.org
e-mail inforhc@mail.infocom.etecsa.cu
Phone: 53 -7 - 814243

Date: Fri, 04 Sep 1998 21:45:40 -0600
From: Pat Byers <pbyers@rttinc.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [19403] Ten Tec 251, NOT 252
Message-ID: <3.0.5.32.19980904214540.007db810@mail.rttinc.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Oops!

It has been pointed out to me that the subject line in my power supply
inquiry was incorrect. Chock it up to a typo and insufficient proof reading.

Anyway, my questions were about a Ten Tec Model 251 power supply.

Sorry.

73/72,

Pat Byers, VE6AAN

Date: Fri, 04 Sep 1998 22:49:19 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: nop@swbell.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [19404] Re: Solid State Design...
Message-ID: <35F0B4BF.179081DB@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I think that the main point about the NE602, or any other component or circuit, should be for us to understand WHY it is believed to be a poor component for WHICH applications. Leaving it out and pretending that it does not exist because it fails to meet some undisclosed set of standards is not educational.

Knowing Wes, I am confident that he will do the job right and give the 602 a fair exposition. Now, if we just happen to come away convinced that it is, in fact, a lousy component, then perhaps justice will have been served in that area as well! Authors are human, after all, you know.

72/73, George Amateur Radio W5YR, now in the 53rd year!
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) 33.2 N 96.6 W EM13RE
QRP-L 1373 QRP-ARCI 9583 FISTS 4930 ARS 403 ICQ 16819496 10-X 11771

Date: Sat, 5 Sep 1998 00:04:25 -0400 (EDT)
From: Paula Bailey <pmbail01@ox.slug.louisville.edu>
To: Jim Lowman <jmlowman@ix.netcom.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [19405] Re: morse code as a foreign language?
Message-ID: <Pine.LNX.3.96.980904234654.10324A-100000@ox.slug.louisville.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 4 Sep 1998, Jim Lowman wrote:

> Paula Bailey wrote:
>
> > Then again, I can understand the fellow asking about Morse code being
> > counted as a credit. This is because it is increasingly common for
> > schools (including colleges) to count computer languages as a language
> > credit if one is going on an "engineering track". (For example, Speed
> > Scientific School [the engineering school here at U of L] allows one to
> > count computer languages such as C and Fortran as languages for college
> > credit. Other schools must take two years of a foreign language.)

>
> I must have been away from high school/college too long. It seemed to
> me
> that the *requirement* to take a foreign language had disappeared back
> in
> the 60s, when I was attending. Foreign languages were one way to
> satisfy
> general education requirements for a college degree, but not the only
> way.
>
> Currently, I believe that there is no requirement that a student take
> any
> foreign language for a Bachelor's degree in the UC or Cal State System.

That was then, though. :) Anymore, college systems are increasingly requiring you take a foreign language of some sort (for a) multicultural exposure and b) because of an international economy)--the Kentucky state college system requires it anymore, anyways.

Increasingly, high schools are, too (they used to *offer* it in the "college prep" tracks as an elective, and required it in "advanced placement" tracks; anymore, in Kentucky, you're actually *required* to take a foreign language if memory serves [unless there is a compelling reason why you cannot--for example, if you are part of a full-time special-ed program or are deaf-blind]).

Kentucky is weird in a lot of things, though; supposedly the reform act is supposed to be a national model of "experimental education", and KY schools and colleges have some requirements most places don't (driver's ed is required in KY high school, both by the school systems and by the state "graduated driver's license" law; to even attend college in KY, you have to show proof of health insurance or you cannot legally attend [which puts poor folks in a world of hurt, but makes a killing for the health clinic on campus which sells a \$50/semester policy so folks not from the US can attend college in KY ;). Your mileage may differ.

> I thoroughly enjoyed the two years of Latin and two years of German that
> I
> took in high school, plus I took a second-year class in German in
> college
> followed by a specialized course in Scientific German. Where I lost
> interest
> was when we started studying the classics in that second-year course.
> We had
> an instructor who was an opera nut, and a Wagner nut.

Heh. :) I honestly think the only schools still offering Latin are either the college-prep magnet schools here, or the Catholic schools. (Yes,

under the wonders of educational reform in Kentucky, *every single school* is a magnet of some sort specialising in a certain field. We have scads of traditional high schools, auto-shop magnets, college-prep magnets, performing arts magnets, airplane pilot magnets [no, I am not making this up], health-care magnets, the obligatory gifted/talented magnet, a computer magnet, but nary a plain old high school. The closest you get here is traditional schools anymore--plain high schools simply do not exist. I have no earthly idea what parents with special-needs kids do.)

The first high school I attended, we literally did not have *any* kind of languages program at all (this was before one was required in KY). Not even computer programming--we had *one* computer in the entire school (originally a TRS-80, later a C-64) and that was that. We literally had to go to another school a mile away if we wanted any kind of education.

Most of the languages taught in schools then seemed to be French, German or Spanish. I can read a little Spanish, but I can't understand it well enough to understand, say, "Sabado Gigante" on Univision. :)

> On this count, I'd have to vote against Morse code as a language.

True. Then again, I think the idea of C being counted for credit purposes as a "language" is silly, too. :)

What with the magnet school craze and the "experimental school" craze here in Kentucky, though, I *am* sort of surprised nobody's thought to propose a telecommunications magnet. Heck, if they can teach kids to fly airplanes...it mightn't hurt to set up something like a radio/TV magnet, and teach kids to get their ham licenses an' all and base the curriculum around this (yes, that's what they do--they find ways to tie *everything* into the "magnet activity" so that kids learn how the stuff they learn in school helps them out in the real world). ;)

> 72 de Jim - AD6CW

-pb

Date: Sat, 05 Sep 1998 00:04:39 -0400
From: "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
To: "qrp-l@Lehigh.EDU" <qrp-l@Lehigh.EDU>, NJQRP Club <njqrp@njqrp.org>
Subject: [19406] QRPTTF
Message-ID: <35F0B857.701AAEA9@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Looks like me and the HW-8 and a piece of wire will be in Virginia beach during the weekend beginning the 18th so listen for me during the contest. Hint. i'll be slightly above the speed demons.

--

+++++

T.J. "SKIP" AREY N2EI e-mail tjarey@home.com

QRP-L #1618 QRPARCI #8634 NJ-QRP #155 G-QRP #10055
NORCAL ZOMBIE #122 ARRL Life Member

QRP RIGS: HW-7, HW-8, FT-301S
KITS IN PROGRESS - Ten-Tec 1330, KnightSMiTe "Pixie"

Website <http://members.home.net/tjarey>

Snail Mail: PO Box 236, Beverly, NJ 08010

Specialization is for insects! LAZARUS LONG

Date: Fri, 4 Sep 1998 21:29:30 -0700
From: gsurrency@juno.com (Gary L Surrency)
To: olyellr@iglou.com
Cc: qrp-l@Lehigh.EDU
Subject: [19407] Re: CW debates
Message-ID: <19980904.212954.10046.2.gsurrency@juno.com>

I wrote:

>

snip

>Go to the CW reflector if you want to discuss this topic. PLEASE!

>

On Fri, 04 Sep 1998 21:52:22 -0400 olyellr@iglou.com writes:

>

>For God's sake, please don't bring it there either!

>

Sorry, I should have said the CW debates outta move over to
rec.amateur.radio.policy

duh!

Humble apologies to the CW list. <:-|

72,

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 5 Sep 1998 00:43:46 -0400
From: "Ken & Linda Burrough" <ne0c@1st.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [19408] Morse Code as A Foreign Language---Yes
Message-ID: <009101bdd887\$f4ee89a0\$7a06f0d1@ne0c.1st.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hay Paula, that sounds like an old song. Yes I think Morse Code is like a Foreign Language, The more you use it, the easier it gets.

The Old Buzzard---Ken/ne0c Flushing, Ohio

Date: Sat, 5 Sep 1998 00:09:03 -0600
From: Niels Jensen Kristjansson <nkristja@cadvision.com>
To: qrp-l@Lehigh.EDU
Subject: [19409] HW-7 Mods QST jan 1974
Message-ID: <1.5.4.16.19980905000319.1b0f7460@cadvision.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi gang!

Just wondering if any of you did ever do the mods to a HW-7 as described in the 1974 january(p.35) issue of QST. My reason for asking is that I wanted to build the front end on a single sided PCP but the article describes the mod built on a double sided.

PLEASE PLEASE don't get the CW thread going yet once again, makes me sick to

read one more message on that long dead horse.

72 de Niels
VE6NJK/TF3NJ

The larger the island of knowledge, the longer the shoreline of wonder.

Joseph MacInnes.

Date: Sat, 05 Sep 1998 00:05:37 -0800
From: "Jim Larsen (AL7FS)" <larsennc@alaska.net>
To: "qrp-1@lehigh.edu" <qrp-1@Lehigh.EDU>
Subject: [19410] Depth of Antenna Knowledge at W4RNL Home Page de AL7FS
Message-ID: <35F0F0D1.D0F41496@alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

W4RNL, L.B. Cebik
Tales and Technicals: A Little History and a Lot of Antennas
<http://funnelweb.utcc.utk.edu/~cebik/radio.html>

Inches

1.40	A Little History + Antenna Modeling Notes
0.49	Practical Antenna Notes: Lower HF (Mainly)
0.66	Practical Antenna Notes: Upper HF (Mainly)
0.52	Transmission Lines and Impedance Coupling
0.25	An-Ten-Ten-nas: a series
0.46	Antennas From the Ground Up: a series
0.26	Antenna Modeling: a series
0.34	Amateur Radio Continuing Education: a series
	+ Antenna Articles: a personal bibliography

4.38 inches = Total depth of knowledge in inches at W4RNL. :-)

73, Jim, AL7FS
Anchorage, Alaska

Date: Sat, 5 Sep 1998 06:15:24 -0400 (EDT)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: Randy Jouett <nop@swbell.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [19411] Re: transistor books
Message-ID: <Pine.GS0.3.96.980905053241.28018A-1000000@larry.cas.utk.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

>
> Ever notice that the difference between a good technical manuscript and
> a GREAT manuscript is the ease in which you can read the latter? Heck --
> analogy and simplicity are usually used in the begining of electronis
> manuals. V = pressure. I = current flow of a water-works system.

The use of analogy in technical subjects is always a bit tricky. The best writers know their subject well enough not only to select an apt analogy, but also to know and to say where the analogy hits its limit and the two subjects are no longer usefully analogous. The lesser writers very often latch onto a old analogy or invent a new one and then mislead their readers by not showing the limitations of the analogy.

For example, the old water pipe system analogy applies to DC and can indeed be helpful for DC circuit understanding. However, many students have tried to carry that analogy over into AC theory, where it becomes dis-analogous and limiting to the understanding of the many AC phenomena. Hence, many students have great difficulties with inductance and capacitance and related concepts, since they do not make the shift from flowing electron aggregates to wiggling (oscillating) electron aggregates, and they fail to note the very crucial differences between the two modes of movement.

Another related writing problem is that some writers do not clearly distinguish between working analogies and momentary metaphors. I can make a word picture of the difference between DC and AC by reference to the difference between walking and dancing. While picturesque and possibly apt on occasion to take the drudge out of the writing, such pictures should not be left to become analogies in the minds of readers, since they can do little or no further work in explaining a subject. A good analogy is one which can be caried several steps in parallel with the subject at hand--and then be terminated when it reaches the limits of application. At the end of the analogy, the reader should be left with the principles of the subject well in hand, and not the analogy used to get there. Analogies help to naturalize a subject but are not a substitute for the subject matter itself.

Those who are using the Elmering work on this list and other sources to increase their understanding of QRP rigs and electronics in general should always strive to see through the analogy to the subject. If someone says, "Think of this as X," always ask "How far?" If the author does not tell you, then take it as a challenge to figure out the limits of the "think-as" exercise.

One tiny and far-fetched example: in older AM broadcast transmitters, the distilled cooling water that surrounded the tube jacket also passed through the tubing used as the tank coil. Although design engineers were concerned not to use so much pressure that they burst the coil tubing, they never had a thought to the "inductance" of the water. For a moving water system, pressure and the length of the tubing path were proper concerns. Inductance was irrelevant to cooling, even though it was the principal concern of the electronic operation of the tank circuit.

My "day-job" field has made me keenly aware of analogies, and were this a different list, I would start a nearly endless list of how much trouble the human race has gotten itself in by over-extending initially attractive analogies. Eventually, one has to pass beyond analogies and become thoroughly comfortable with the subject itself--and AC/RF notions are no exception. An alternative goal to finding the helpful analogy is to work toward understanding how all the pieces--whether components or calculations--fit together to make a coherent whole.

-73-

LB, W4RNL

Date: Sat, 5 Sep 1998 06:20:22 -0400 (EDT)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: "Jim Larsen (AL7FS)" <larsennc@alaska.net>
Cc: "qrp-l@lehigh.edu" <qrp-l@Lehigh.EDU>
Subject: [19412] Re: Depth of Antenna Knowledge at W4RNL Home Page de AL7FS
Message-ID: <Pine.GS0.3.96.980905061913.28018B-100000@larry.cas.utk.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> -----
> 4.38 inches = Total depth of knowledge in inches at W4RNL. :-)

That is also the amount of rain we did not get in July and August here. I

hope my dying grass and flowers do not blame it on me.

-73-

LB, W4RNL

Date: Sat, 05 Sep 1998 06:11:12 -0500
From: Fred Bennett N9TA <n9ta@bluemarble.net>
To: Qrp-L <qrp-l@Lehigh.EDU>
Subject: [19413] Will a Kenwood TS-870 do Qrp ??
Message-ID: <35F11C4F.B559D5D8@bluemarble.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Gang

I am about to trade my trusty JRC JST-245 (Won't do Qrp) away for a Kenwood TS-870. Is it possible to get the TX power down to or below 5 watts on the 870.....and if so, what does it take ??

73.....de.....Fred N9TA
n9ta@bluemarble.net

Date: Sat, 5 Sep 1998 07:37:42 -0400
From: "William C. Robbins" <billrobb@net-link.net>
To: qrp-l@Lehigh.EDU
Subject: [19414] FS: HW-8 Maua1
Message-ID: <199809051137.HAA16450@serv01.net-link.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

\$17, shipped.

Tnx

Bill

Heathkit Collector

WA8CDU formally WN8CDU

Date: Sat, 5 Sep 1998 07:53:15 -0400
From: Sam Billingsley <SBillingsley@usaninc.com>
To: nop@swbell.net, "Qrp1_Submit (E-mail)" <qrp-1@Lehigh.EDU>
Subject: [19415] RE: Basic Transistor Modeling In Solid State Design
Message-ID: <21E06269B00ED111BE9B00805F6D0FA337BDF7@MAILSERVER1>
MIME-Version: 1.0
Content-Type: text/plain

Randy,

I also read that section of the the book and looked it up on my QST CD collection. The article(s) are very basic and I think if you go to any technical book that discusses "basic" transistor functionality that you will get the same info. In fact, my 1997 ARRL handbook has a much BETTER discussion and detail than the Stoffels articles.

Sam AE4GX

> -----Original Message-----
> From: Randy Jouett [SMTP:nop@swbell.net]
> Sent: Friday, September 04, 1998 4:09 PM
> To: Low Power Amateur Radio Discussion
> Subject: Basic Transistor Modeling In Solid State Design
>
> On page 8 in "Sold State Design For The Radio Amateur," Wes/Doug
> mention
> a series of articles written by "Stoffels" that talk about the physics of
> the transistor. Anywho, I'm looking for all in-depth, technical
> information
> on the transistor that I can find. Is this a good place to start?
>
>
> BTW, has SSD been updated recently? With all the newer active and
> passive mixers, Up conversion, SMD's, and DDS stuff flying around these
> days, one would think that this book will be updated....or has it?
>
>
> While I'm at it, I'm also looking for technical books on:
> electron-packet bombardment, xray lithography, and any recent papers
> written
> on the neutrino and its theorized mass characteristics. Hmmm. What effects

> will this have on electrical engineering? "National Enquiring" minds want
> to
> know! :^)Man, I'd love to be workin' at Lawrence Livermore Labs (sic ?)
> these days :^).
>
>
> Randy AB5NI
> nop@swbell.net
>
>

Date: Sat, 5 Sep 1998 08:38:57 EDT
From: ARDUJENSKI@aol.com
To: nwq-1@scn.org, qrp-1@Lehigh.EDU
Subject: [19416] W5QJR ANTENNA?
Message-ID: <2427f504.35f130e1@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Hey have you coax lovers seen this nifty antenna? If not pop into the AntenneX
site for a gander.
<http://www.antennex.com/preview.htm>
It looks like a nice simple antenna for NERDS and field day.
ALAN KB7MBI

Date: Sat, 5 Sep 1998 09:03:00 -0400
From: "John J. McDonough" <jjmcd@tm.net>
To: <gsurrency@juno.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [19417] Re: CQ K5FO
Message-ID: <199809051255.8159800@is1.tm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

> From: Gary L Surrency <gsurrency@juno.com>; owner-qrp-1@Lehigh.EDU
>
> Has anybody heard from Chuck lately? Or has he succumbed to the 108
> degree heat in Dallas? =:-o
>
> 72, :-)
>

> Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)

Like you DON'T see that kind of heat in Phoenix every summer?

Chuck posted a kind of vague note a week or so ago that indicated he would be off the net for a few weeks. Apparently, retiring (so no longer @sgi.com), moving to a new QTH, *AND* taking some time to catch up on some other things.

He said:

"I will unsubscribe (I did keep the instructions :-)
for a little while, but remember I am a speed reader
when I get back. ;-)"

72/73 de WB8RCR
didileydadidah

Date: Sat, 5 Sep 1998 09:02:09 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@Lehigh.EDU, nwq-l@scn.org
Subject: [19418] ANTENNEX ARCHIVE?
Message-ID: <48b53528.35f13651@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

WEB SURFING I finally made it to the AntenneX Archives. There seems to be a wealth of articles here and you have access to both sets of articles for about \$20. Anyone been in the archives and checked out the articles??
Alan KB7MBI

Date: Sat, 5 Sep 1998 06:37:00 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Randy Jouett <nop@swbell.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [19419] Re: transistor books
Message-ID: <Pine.BSI.3.96.980905063253.6088A-100000@usr07.primenet.com>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 4 Sep 1998, Randy Jouett wrote:

```
>  
> -----Original Message-----  
>  
> >As an old college prof, I have come to realize that some  
> >texts are simply awful and not understandable, and some  
> >are wonderfully easy and useful.  
>  
> And guess what. This is the main reason why I want as many author names as  
> possible :^). And some people wonder why "DOS For Dummies" sold millions of  
> books. If an author truly understands his or her subject matter, ease of  
> explanation will be right at their fingertips. When was the last time you  
> saw "use of analogy" in a university text book? I'm wondering when someone  
> in the ham community it going to write "RF Design for the Complete Idiot."  
>
```

If I were to write that book, I would have to do so at a college graduate level. The engineers we see now from the diploma mills have no interest in the subject whatsoever. And for good reason: You can't do the work by just pushing buttons on a computer. I've worked for a number of managers who think it's nothing more than that.

```

      ,-----'
    /   What's all this   \
   / extinct stuff, anyhow? \
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 _ ||/
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        \ \ "       \
           \          \
              ( ) \
                '-| | :. \
                  | | | | \
                   c__; c__; '...'>._

```

Circuit Design for the
RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Sat, 05 Sep 1998 08:16:53
From: "K. Babcock" <casey@mufn.org>
To: qrp-l@Lehigh.EDU
Subject: [19420] qrp afield
Message-ID: <3.0.5.16.19980905081653.3c878b32@mufn.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hey, folks:

If I am able to run in the 'test, I'll be happy to give grid square (EN64) to anyone that asks for it. Just running in the contest will be fun, no big deal to tack on an extra 5 - 10 sec. in a qso

Kent Babcock, N8WVD Arcadia, MI

Date: Sat, 5 Sep 1998 10:19:20 -0400
From: "Kevin F. Glynn" <kfglynn@prodigy.net>
To: <bill@willapabay.org>
Cc: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [19421] 300 ohm ladderline availability
Message-ID: <199809051423.KAA61616@pimout3-int.prodigy.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi Bill and gang,

CC:'d the list in case someone else may be interested.

I bought 300 ohm ladderline from Davis RF. The Wireman also sells it, too.

Both advertise in QST.

72 Kevin N2TO
Brooklyn, NYC
kfglynn@prodigy.net

Date: Sat, 5 Sep 1998 08:36:58 +0100

From: Denton Bramwell W7DB <Denton@Bramwell.Org>
To: "'qrp-l@lehigh.edu'" <qrp-l@Lehigh.EDU>
Subject: [19422] SG-2020
Message-ID: <5103124387F8D11199DD00A0C925E4B91612@SQLMAILSERVER>
MIME-Version: 1.0
Content-Type: text/plain

SG-2020 comments at www.bramwell.org have been updated to reflect new data.

Mine is still for sale, \$525, in factory condition.

Date: Sat, 5 Sep 1998 11:58:41 -0400 (EDT)
From: Chris Cartwright <ccart@dns.vidtel.com>
To: QRP Reflector <qrp-l@Lehigh.EDU>
Subject: [19423] Folded Dipole Antenna Question
Message-ID: <Pine.LNX.3.93.980905114051.664A-1000000@dns.vidtel.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I'm gonna toss up a 300 ohm twinlead folded dipole on 20 for the sprint tonight. In looking through the antenna handbook it says folded dipoles only works at resonance, or 3x resonance, etc. If I build a folded dipole out of twinlead, and "hang on" another 17' single strand of wire on each end will it "dual-band" on 20/40? I'll let you know (unless someone shoots me down quickly) since some form of it is going up on the roof this afternoon. It may turn into a G5RV before it done. Is what I'm describing sort of a bazooka? Any quick ideas for 80M on a 19'x62' townhouse lot, other than moving :) tnx

72 es cya

-- Chris Cartwright, Technical Engineer | ccart@vidtel.com --
-- N3XRV ARRL-VE Norcal Zombie #163 | Gaithersburg, MD FM19je --
-- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271 --

Date: Sat, 05 Sep 1998 08:35:14 -0800
From: "Jim Larsen (AL7FS)" <larsennc@alaska.net>
To: Michael Miller <millermd@nwu.edu>, cebik@utkux.utcc.utk.edu, "qrp-l@lehigh.edu" <qrp-l@Lehigh.EDU>
Subject: [19424] Re: Depth of Antenna Knowledge at W4RNL Home Page de AL7FS

Message-ID: <35F16842.290A4FEE@alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Michael (with copy to LB, W4RNL),
(just added qrp-1, also)

You are correct. It is not working this morning. It worked just fine yesterday and last evening but does appear to be dead or forbidden today. Maybe LB has some idea. Perhaps the Webmeister is doing some work on the Server. LB?

73, Jim, AL7FS
Anchorage, Alaska

Michael Miller wrote:

> The URRL address you gave does not allow access. I would love to check it
> out -- is there another address?
>
> 73 de KG9ML
>
> -----Original Message-----
> From: Jim Larsen (AL7FS) <larsennc@alaska.net>
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
> Date: Saturday, September 05, 1998 3:08 AM
> Subject: Depth of Antenna Knowledge at W4RNL Home Page de AL7FS
>
> >W4RNL, L.B. Cebik
> >Tales and Technicals: A Little History and a Lot of Antennas
> ><http://funnelweb.utcc.utk.edu/~cebik/radio.html>

Date: Sat, 05 Sep 1998 13:11:49 -0400
From: Ed <edn4pk@voyageronline.net>
To: Qrp <qrp-1@Lehigh.EDU>
Subject: [19425] Sprint
Message-ID: <35F170D5.9E4EB0BF@voyageronline.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Dumb question. Is the Sprint a single band effort only ?? Or do I have my choice of working all 3 bands ?? Thanks in advance. Hope to see you

all in the Sprint.
Ed W3NR
CW from beautiful downtown Chickamauga, Ga.
Qrp-l #1307

Date: Sat, 5 Sep 1998 12:16:53 -0500
From: n5inz@juno.com (John M Andrews)
To: Denton@Bramwell.Org
Cc: qrp-l@Lehigh.EDU
Subject: [19426] Re: SG-2020
Message-ID: <19980905.121753.3382.4.N5INZ@juno.com>

On Sat, 5 Sep 1998 08:36:58 +0100 Denton Bramwell W7DB
<Denton@Bramwell.Org> writes:
>SG-2020 comments at www.bramwell.org have been updated to reflect new
>data.

Thanks, Denton-

I've seen your data. The most I can say- it's fair. You had no drum to
beat. I've
seen one, but not on the air.

Attn: K-2 boys- Fork in one hand, knife in another, napkin tucked neatly
under
our chin. Let's eat.

72, John- N5INZ

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Date: Sat, 05 Sep 1998 17:26:36 +0000
From: Hank Kohl K8DD <k8dd@contesting.com>
To: edn4pk@voyageronline.net
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [19427] Re: Sprint
Message-ID: <3.0.5.32.19980905172636.00959620@192.0.0.1>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

At 01:11 PM 9/5/98 -0400, Ed wrote:

>Dumb question. Is the Sprint a single band effort only ?? Or do I have
>my choice of working all 3 bands ?? Thanks in advance. Hope to see you
>all in the Sprint.

>Ed W3NR

>CW from beautiful downtown Chickamauga, Ga.

>Qrp-l #1307

Not a dumb question.

You CAN work single band, but all entries are considered 3-band.

Don't forget to mark your entry QRP in big red letters.

73 Hank K8DD

*/ Hank Kohl K8DD k8dd@contesting.com
*/ ARRL TS http://www.tir.com/~k8dd
*/ MI-QRP - Vice Pres. QRP-ARCI - Director
*/ G-QRP ARRL/LM QCWA/LM QCAO/LM

Date: Sat, 05 Sep 1998 09:36:49 -0800

From: "Jim Larsen (AL7FS)" <larsennnc@alaska.net>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [19428] Update on Depth of Antenna Knowledge at W4RNL

Message-ID: <35F176B1.7AF1B817@alaska.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Ok, at 1735Z, the W4RNL page seems to be working just fine. I did a reload and it went right through.

<http://funnelweb.utcc.utk.edu/~cebik/radio.html>

73, Jim, AL7FS

Jim Larsen (AL7FS) wrote:

> Hi Michael (with copy to LB, W4RNL),
> (just added qrp-l, also)

>
> You are correct. It is not working this morning. It worked just fine
> yesterday and last evening but does appear to be dead or forbidden today.

Date: Fri, 4 Sep 1998 16:00:50 -0400
From: n2tpa@juno.com (Bill d Lazure)
To: nick.hulbert@lmco.com
Cc: Qrp-L@Lehigh.EDU
Subject: [19429] Re: morse code as a foreign language?
Message-ID: <19980905.135220.7670.1.N2TPA@juno.com>

"Hulbert, Nick" writes:

>Harley,

>

>"Let me offer my humble opinion based on your observation... I believe
that some of this anti-Morse code movement is fostered by those who want
the amateur privilege without having to meet the code requirements. "

Nick,

Although I partially agree to the opinions you've stated, didn't you
get slightly off the subject of the letter to which you were replying??!?

Bill
N2TPA

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Date: Sat, 5 Sep 1998 11:07:08 -0700
From: gsurrency@juno.com (Gary L Surrency)
To: qrp-l@Lehigh.EDU
Subject: [19430] Chuck and other stuff
Message-ID: <19980905.110958.11854.0.gsurrency@juno.com>

Tnx to all that responded re: Chuck, QRP-L #1

I *do* recall he was off the list for a while, but I wondered if anyone

had talked to him or had an update.

He probably needs the time for relocation preparations, and a little vacation time would be nice too. ;-)

BTW, last week when I was leaving town for the weekend up in the AZ mountains, the digital thermometer in my minivan was steady at 116 degrees F, and my wife said it actually hit 121 briefly before we got out of town. Sure glad that storm Isis came by this week and cooled things down a bit.

I missed the BUBBA event, but had fun with the wife and kids up in the 7500 ft elevation near Heber, AZ on the Mogollon Rim. Temps were in the 70s and low 80s, so it was sure a welcome change from the Phoenix area weather. We enjoyed the tent-trailer at Canyon Point campgrounds. Very nice there, with AC hookup, and Ponderosa Pines of 70-90 feet.

I was lucky to get one of Roy Gregson's ZM-2 tuners before he became a SK, so it will have a special significance when I build it. Sure hope his relatives can continue his work, or pass it to someone who can.

Hope everybody has a nice Labor Day weekend. The XYL has to work, so I'm baby sitting the 5 yr old and 8 mo old alone this weekend. If they both should happen to take a nap, I'll be on 40, 30, or 20 some today & tmw.. So get out those SW, Emtechs, and 38 Specials and let's have some Q's.

72,

Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)

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Date: Sat, 5 Sep 1998 13:18:32 -0400
From: w4bws@juno.com (Donald E Sanders)
To: ku7y@dri.edu
Cc: qrp-l@Lehigh.EDU
Subject: [19431] Re: (NERDS)USE OF COAX
Message-ID: <19980905.141754.3774.6.w4bws@juno.com>

Sometimes I think(IMHO) some of the biggest NUTS
are doing the twisting. We used the wire nuts 20 years ago.
Don W4BWS

>Hi All, Lots of confussion about wire nuts.
>>Wire nuts just twist on by hand.
>73, Ron, SOWP 5545M,

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Date: Sat, 5 Sep 1998 12:26:12 -0400
From: w4bws@juno.com (Donald E Sanders)
To: buydens@duke.usask.ca
Cc: qrp-1@Lehigh.EDU
Subject: [19432] Re: morse code as a foreign language?
Message-ID: <19980905.141754.3774.2.w4bws@juno.com>

Yes it does, I see a lot of Hams in the area for the headaches and neck spasms from learning and listening to the code. Of course many are tone deaf and couldn't carry a tone if it were in a bushel basket. Why do I see them, you ask? Because I'm one of those real doctors, A Chiropractor. We give Hugs, not Drugs.

Don W4BWS

On Fri, 4 Sep 1998 11:36:48 -0600 (CST) "Brian.Buydens@usask.ca"
<buydens@duke.usask.ca> writes:
>Good heavens! I know that Morse code builds patience but I didn't
>think it created Patients!
>
>

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Date: Sat, 5 Sep 1998 11:35:24 -0700 (PDT)
From: Monte Stark <ku7y@dri.edu>
To: Donald E Sanders <w4bws@juno.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [19433] Re: morse code as a foreign language?
Message-ID: <Pine.SOL.3.96.980905113312.24234E-100000@vortex>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 5 Sep 1998, Donald E Sanders wrote:

> Yes it does, I see a lot of Hams in the area for the headaches and neck
> spasms from learning and listening to the code. Of course many are tone
> deaf and couldn't carry a tone if it were in a bushel basket.

Hi Don,

If you really believe that learning the code causes spasms or that
being "tone deaf" makes any difference, I've got a nice bridge
in NY I'll sell ya!

: -)

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Sat, 05 Sep 1998 14:39:54 EDT
From: we6w@juno.com (Ed Loranger)
To: qrp-l@Lehigh.EDU
Subject: [19434] 52,000 miles/watt today on 40Meters.
Message-ID: <19980905.114018.7735.16.we6w@juno.com>

As NCS for WSN-40 this morning, I warmed up the
DRAKE TR-3 for a full 3 hours prior.

Then, with about 20 minutes to go, the coffee
and log sheet were placed in convenient locations
and I started warming up my Bug/fist.

Now, I set the rig to the non-X position which
keeps the finals off-line during CW transmissions.

I proceeded to send all the words on the Ronsignol
lighter fluid container, careful to send TEST and
DE WE6W periodically (Knowing that even though
the QRP wattmeter wasn't moving, that I was
putting out between 2 to 5 milliwatts.

Then I here "QRZ? QRZ? So I QRT and quietly moved....Hee, hee. Apparently someone heard my 2 to 5 milliwatts!

Ok. during the WSN-40 net, Lew/K5QXX mentions he heard me warming up! sure Enough we QSO after the net and I dropped as low as the rig can go, RF Drive to the ZERO Stop! Previously I've accurately measured the imbalance of the carrier oscillator in this condition to transmit at only 1 milliwatt.

We did it! RST 599/229 1 milliwatt 52 miles. Comes out to 52,000 miles per watt. Now, if only I can set the rig to 1 Watt and work someone on 40 meters who is 52,000 miles away.

His QSL is on its way and I'll be drawing up a special one, I think. (Yoda Speak)

Yes!

--

72, Ed WE6W QRP-Z#106 <http://www.qsl.net/we6w>
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Date: Sat, 5 Sep 1998 12:39:58 +0100
From: Denton Bramwell W7DB <Denton@Bramwell.Org>
To: "'qrp-l@lehigh.edu'" <qrp-l@Lehigh.EDU>
Cc: "'sgc@sgcworld.com'" <sgc@sgcworld.com>
Subject: [19435] SG-2020 chirp
Message-ID: <5103124387F8D11199DD00A0C925E4B91614@SQLMAILSERVER>
MIME-Version: 1.0
Content-Type: text/plain

I've done some additional testing for chirp on my 2020, and I don't seem to have any. I also have 1.03 firmware, which antedates the firmware fix for the problem.

To see if the chirp comes from RF, I put a T connector in the line to my dummy load. I connected a short piece of wire to the center of the T,

and laid the wire near the 2020. Still no chirp.

I did hear some odd stuff, but no chirp in my unit.

This could indicate a marginal design, where some of us got lucky, or it could indicate a wrong or defective component in some units, or it could be that I have not subjected it to sufficient RF or some other factor, such as a mismatch that would reasonably be encountered in the field. It also indicates that a firmware change cannot solve the whole problem.

Additional details are available at www.bramwell.org/qs1s.htm.

Date: Sat, 5 Sep 1998 14:29:47 -0400
From: n2tpa@juno.com (Bill d Lazure)
To: n4xy@att.net
Cc: QRP-L@Lehigh.EDU
Subject: [19436] Re: ATTN: SGC-2020 OWNERS
Message-ID: <19980905.145147.7670.4.N2TPA@juno.com>

Ed Tanton writes:

"Hello everyone... I am writing this to poll the owners of the SGC-2020 regarding their transceiver's original condition-especially with regard to the chirp-as well as other faults shared by most-if not all-owners. I am also interested in learning summaries of their treatment by SGC personnel, and the results of their attempts at repairs."

Ed,

For the benefit of possible buyers of the SGC-2020, and as an aid to tell other manufacturers where their "customer Service" could use improvement, could you please post your results to the List?

Bill Lazure
N2TPA

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 05 Sep 1998 14:05:11 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: ctrask@primenet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [19437] Re: transistor books
Message-ID: <35F18B67.5A9E3CBA@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Further to Chris' point, so many people who visit engineering at the "hobby" level seem to forget that this stuff is NOT SIMPLE and no amount of wishing or analogies is going to make it so. It takes a lot of non-trivial math to model circuit and device behavior in order to allow a meaningful analysis to produce useful quantitative results.

Engineering is NOT just an "understanding" of or a way of looking at circuit behavior based on analogical concepts. That level of understanding is useful, interesting and all that is needed for many purposes, particularly in hobby activities. However, when it comes time to "do the real thing" and produce quantitative results that can lead to the production and application of devices and systems, then the heavy iron comes into play.

Yes, there are some "awful" texts out there. Many writers can't see beyond the math and their own experiences. Then, there are excellent authors such as LB Cebik who have learned how to "sugar coat" certain topics and get across the main points with only limited math. But, the key point is that LB didn't learn that way, taking the shortcuts and the sugar-coated texts.

So, the next time you are tempted to complain because an article or a text seems out of line with its complexity and use of math, stop and think about the purpose of the article or text: is it intended to introduce/entertain a certain topic, or is it intended to provide a solid grounding in the subject area?

The very best example of authors successively straddling the fence between popular prose and adequate engineering exposition is "The Art of Electronics" by Horowitz and Hill. It is a must-read for anyone interested in this general subject. Really not enough math to answer the needs of the professional, but that is not the intended reader.

72/73, George Amateur Radio W5YR, now in the 53rd year!
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) 33.2 N 96.6 W EM13RE
QRP-L 1373 QRP-ARCI 9583 FISTS 4930 ARS 403 ICQ 16819496 10-X 11771

Chris Trask wrote:

> If I were to write that book, I would have to do so at a college
> graduate level.

Date: Sat, 05 Sep 1998 14:16:40 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: n9ta@bluemarble.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [19438] Re: Will a Kenwood TS-870 do Qrp ??
Message-ID: <35F18E18.9A75FD10@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Have you tried reducing transmit power by feeding a negative voltage into the ALC input? I use my IC-765 that way and can control power output from zero to 100+ watts with a pot. Should work with any transceiver that has an ALC input.

72/73, George Amateur Radio W5YR, now in the 53rd year!
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) 33.2 N 96.6 W EM13RE
QRP-L 1373 QRP-ARCI 9583 FISTS 4930 ARS 403 ICQ 16819496 10-X 11771

Fred Bennett N9TA wrote:

>
> Hi Gang
>
> I am about to trade my trusty JRC JST-245 (Won't do Qrp) away
> for a Kenwood TS-870.

Date: Sat, 5 Sep 1998 14:19:12 -0500 (CDT)
From: Roger Braker <msebrakr@telepath.com>
To: qrp-l@Lehigh.EDU
Subject: [19439] dan's small parts
Message-ID: <199809051919.0AA15962@telepath.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Guys,
I placed an order by mail wiht dan's small parts last thursday((august 27)
I got it today. I was amazed. I didn't expect for a whole another. I have
heard that some people have had problems with delayed orders from him but
not me. I make standeard disclaimer but I'm sick of them:-)J/k Standard
disclaimer apply:-)

73,
Arnold kd5ckh

Date: Sat, 5 Sep 1998 14:20:08 -0500
From: "Randy Jouett" <nop@swbell.net>
To: <cebik@utkux.utcc.utk.edu>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [19440] Re: transistor books
Message-ID: <003d01bdd902\$34807e00\$210aa8c0@aldebran>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: L. B. Cebik <cebik@utkux.utcc.utk.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Saturday, September 05, 1998 5:17 AM
Subject: Re: transistor books

>The use of analogy in technical subjects is always a bit tricky. The best
>writers know their subject well enough not only to select an apt analogy,
>but also to know and to say where the analogy hits its limit and the two
>subjects are no longer usefully analogous. The lesser writers very often
>latch onto a old analogy or invent a new one and then mislead their
>readers by not showing the limitations of the analogy.

I agree, LB. Basically, people are looking for "clear" and "concise" explanations. There doesn't have to be an analogy on every page, but I'm pretty sure the majority of the readers would like one at the introduction of a new concept. If an analogy isn't applicable, then a little verbosity here and there would go a long way in the students understanding of the basic principles.

Let's face it: the human mind is a massively paralleled association box (or a massive void in some situations :^)) with the underlying basis of, "Is this a threat? Is this going to kill me? Does this remind me of something dangerous I've seen before?" This is the basis of the human mind and memory and a very difficult path to deviate from. For instance, I'm

sure you've noticed peg systems, lightning-calculation systems, and terms such as "Eli the ice man." I wonder why these things exist? Hmmmmmm -- sounds like associations to me. (Read: analogies.) Heck, we are reared with this concept in mind, with parents using it with their young children on a daily basis.

>For example, the old water pipe system analogy applies to DC and can
>indeed be helpful for DC circuit understanding. However, many students
>have tried to carry that analogy over into AC theory, where it becomes
>dis-analogous and limiting to the understanding of the many AC phenomena.
>Hence, many students have great difficulties with inductance and
>capacitance and related concepts, since they do not make the shift from
>flowing electron aggregates to wiggling (oscillating) electron aggregates,
>and they fail to note the very crucial differences between the two modes
>of movement.

Then the author should -- at that particular point in time -- note these differences in depth. If the students are having difficulties with a particular concept, then write a chapter or a whole book on the subject.

An author is either the conveyor of knowledge or a hinderance. If an author can't give simple, verbose (and sometimes terse) explanations on ANY subject, then he should call it quits and get the hell out of the writing business. You might argue that this is not possible when dealing with a very technical subject. Well, if it's that technical, then the majority of the readers will be very familiar with the subject, and they'll have "their" level of simplicity. In other words, there won't be any novices/newbies reading that book anyway. They'll be reading prerequisite material, and by the time they get to the next book in sequence, the prerequisite material should have built them up to the point that this new technical material can be explained simply, with use of association or analogy from the previous book.

>Another related writing problem is that some writers do not clearly
>distinguish between working analogies and momentary metaphors. I can make
>a word picture of the difference between DC and AC by reference to the
>difference between walking and dancing. While picturesque and possibly
>apt on occasion to take the drudge out of the writing, such pictures
>should not be left to become analogies in the minds of readers, since they
>can do little or no further work in explaining a subject. A good analogy
>is one which can be carried several steps in parallel with the subject at
>hand--and then be terminated when it reaches the limits of application.
>At the end of the analogy, the reader should be left with the principles
>of the subject well in hand, and not the analogy used to get there.

>Analogies help to naturalize a subject but are not a substitute for the
>subject matter itself.

I agree, LB; however, analogies sure as heck help with retention, and that's 100% of the battle. Learning has everything to do with memory, and if an analogy helps me to remember "the basic concept," then bring it on, bro' :^). I guess what it really boils down to is this (your sentiments and mine combined): there's a fine line to be drawn when using analogies. If you use one, then make sure it is applicable through the entire explanation process. Also, if you can't use an analogy, then make damn sure that you give a concise explanation, especially in areas where previous students have had difficulties. Moreover, don't give a damn if it takes 3 paragraphs or 3 volumes to get the point across.

A good example of a complete and concise volume is Solid State Design For The Radio Amateur. Specifically, pages 26, 27, 28, 29, and 30, where Wes and Doug explain the universal transmitter and debugging practices. Why aren't all technical manuals written this way? They sure made a great combo and a fine book. Let's all hope that the revision continues with this concept.

>Those who are using the Elmering work on this list and other sources to
>increase their understanding of QRP rigs and electronics in general should
>always strive to see through the analogy to the subject. If someone says,
>"Think of this as X," always ask "How far?" If the author does not tell
>you, then take it as a challenge to figure out the limits of the
>"think-as" exercise.

I agree that they should see through the example, LB. Let's give the reader a little credit for having some intelligence here, please.

>
>One tiny and far-fetched example: in older AM broadcast transmitters, the
>distilled cooling water that surrounded the tube jacket also passed
>through the tubing used as the tank coil. Although design engineers were
>concerned not to use so much pressure that they burst the coil tubing,
>they never had a thought to the "inductance" of the water. For a moving
>water system, pressure and the length of the tubing path were proper
>concerns. Inductance was irrelevant to cooling, even though it was the
>principal concern of the electronic operation of the tank circuit.

I wonder if this is the reason they call it a tank circuit? (Ducking.). :^)

>My "day-job" field has made me keenly aware of analogies, and were this a
>different list, I would start a nearly endless list of how much trouble
>the human race has gotten itself in by over-extending initially attractive
>analogies. Eventually, one has to pass beyond analogies and become
>thoroughly comfortable with the subject itself--and AC/RF notions are no
>exception. An alternative goal to finding the helpful analogy is to work
>toward understanding how all the pieces--whether components or
>calculations--fit together to make a coherent whole.

I agree, LB. The reader has to learn the subject -- no two ways about that! However, with simplified explanations and use of analogies (where appropriate), more readers/students will have a better, through understanding of the material, even if the material is not in their area of expertise. All of this is my "be it ever so humble, there's no place like home" opinion, of course :^). Hmmm. Was that an association?

Randy AB5NI
nop@swbell.net

P.S.

Wes and Doug did a great job of explaining the different aspects of AC/RF and DC in a circuit. Maybe I'll name my first self-designed rig after them :^).

Date: Sat, 05 Sep 1998 14:26:16 -0500
From: jmbrown@edge.net (JERRY BROWN)
To: qrp-l@Lehigh.EDU
Subject: [19441] MORSE, LANGUAGE OR DISEASE?
Message-ID: <35F19058.20A0@edge.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ref remarks by Don, W4BWS

Good code has relieved my headaches since 1962! And QRP code has only improved my situation!

Still trying to find curable disease-cancers, etc. (with mammography and the rest of my radiology armaentarium). Hugs might get me into trouble in some areas of practice. Only people who live in White Houses shouldn't cast stones about such matters (martyrs?).

SORRY FOR THE DEVIATION,

Jerry N4EO
MD in TN

Date: Sat, 05 Sep 1998 12:33:56 -0700
From: Bob Painter <turnkey@exo.com>
To: qrp-l@Lehigh.EDU
Subject: [19442] Re: Sprint - questions
Message-ID: <199809051927.MAA26387@ns1.snni.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi gang
I'm going for a CW test this afternoon (to upgrade to a plus) and would like to know if there will be any sprint contesting done in the novice/plus bandwith on 40M. If so, about what freq?

Also what does 0000 - 0359 UTC translate to for folks on the west coast (pacific time)

Thanks,
Bob KF6NKH, Yorba Linda, CA

Date: Sat, 5 Sep 1998 14:56:24 -0500
From: nilsbull@juno.com (Nils R Young)
To: QRP-L@Lehigh.EDU
Subject: [19443] Battery tasting & noise blanker queskins, among other meanderings . . .
Message-ID: <19980905.145631.9198.0.nilsbull@juno.com>

Gang,

Well, let's see . . . I woke up with a headache that only coffee &

excedrin w/cafeine could solve . . . but it made me hyper so . . .

A couple months ago I bought a bag of 2N2222As from Roger at Midwest. So I sat out in the shack losing my headache & getting hyper by puttin' them all through the little beta testing part of my cheap DVM. I ended up with a range of 100 through 145. I took the 2N2222A that was in the Sierra out & put in one of the higher beta ones. That was more hoos. Then I rewound the LPF coils & that was more hoos. Then I retuned everything twice & that was even more hoos.

By the time I was done, I had 5+ hoos coming out the antenna hole into a DL on the butt-end of a fairly accurate homebrew hoo/watt meter. And then I started thinking ('cause I was pretty hyper by then) . . .

I just had a QSO last night with a guy runnin' one hoo. Just one. Not five or three or five-plus, but just one hoo. And here I was strainin' a perfectly good headache remedy for more hoos.

Sometimes it just takes a while to sink in. If we're all really, ultimately, fill-dirt, why am I sittin' here with my hands shakin' and the battery in the DVM going dim, worryin' about all them extra tenths of hoos? I mean, this is a rhetorical question & I expected a rhetorical answer. So I asked myself again: "What you wanim all them hoos for, mon?"

Then Cindy asked me to take the windows apart so the paintner can come in next weekend and start on the livin' room 'cause I sure as blazes ain't gonna paint it. Then we went to get some sash cord and bought some white wicker chairs for the front porch.

That took care of the hoos question. And I got a chance to explain to Cindy that the reason I want another, newer, all-band, fancy pants radio that does small hoos is that I want to have something newer than 20 years old that will last me -- if I survive all the headache medicine -- until the estate auction.

And dang if she didn't say "Oh, okay."

More hoos is bad, nkay? So you don't do more hoos, nkay? 'Cause they're bad, nkay?

See ya on the air tomorrow morning, when I will not wake up with a headache and will not need more medication and will not be runnin a bunch of extra, unwanted hoos, nkay?

73

Nils

. . . comments on users of the Wilderness/Sierra extra Noise Blinker gleefully accepted. I gotta helluva line noise problem here & spect that

the BuzzNot will (a) fit in the small radio and (b) take care of a fair chunk of the problem.

Nkay?

Nils R. Bull Young

La Estancia de los Guajolotes Sonrientes :: The Grinnin' Turkey Ranch

WB8IJJ &c :: The Tagalong Press :: email to: nilsbull@juno.com

<http://www.geocities.com/Athens/Olympus/9172>

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Date: Sat, 5 Sep 1998 15:53:22 -0400 (EDT)

From: "J. Skalski" <jskalski@acsu.buffalo.edu>

To: JERRY BROWN <jmbrown@edge.net>

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [19444] Re: MORSE, LANGUAGE OR DISEASE?

Message-ID: <Pine.GS0.3.96.980905154436.411A-100000@callisto.acsu.buffalo.edu>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Sounds like a disability to me:-) Maybe the hams so affected can qualify for a monthly check.

I have heard of families getting checks totaling \$4000 per month because some of their children have ADD (attention deficit disorder).

I was talking to a patient that was amazed that I don't have cable TV. How could I live like that? My boys, now in College, rarely watch TV.

Well like I was saying...She told me that her junior high school child pays for the phone bill and cable bill with his check. What a wonderful country.

Is this radio related? It could be. It could buy a lot of neat kits. ;-)

73,

Jim N2GO

The Buffalo QRP CONNECTION

ARCI #9013 QRP-L #381

Life member ARRL
jskalski@acsu.Buffalo.EDU

Date: Sat, 5 Sep 1998 16:00:58 -0400
From: Sam Billingsley <SBillingsley@usaninc.com>
To: "Qrp1_Submit (E-mail)" <qrp-1@Lehigh.EDU>
Subject: [19445] Lets try 15 and 10 mtrs
Message-ID: <21E06269B00ED111BE9B00805F6D0FA337BDFB@MAILSERVER1>
MIME-Version: 1.0
Content-Type: text/plain

Anyone avialable during the next 30 minutes to try a qrp qso on 15 or 10.
I'm on vacation with INDEX and wire antenna.

Sam AE4GX/4 Saint Simons Island, GA (near North Florida)

Date: Sat, 05 Sep 1998 16:06:14 -0400
From: Ed <edn4pk@voyageronline.net>
To: larsennnc@alaska.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [19446] Re: Update on Depth of Antenna Knowledge at W4RNL
Message-ID: <35F199B5.1B10114E@voyageronline.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Tried a reload and still get the "Forbidden" message. It worked just
fine the other day ???
Ed W3NR
Qrp-1 #1307

Date: Sat, 05 Sep 1998 16:19:27 -0400
From: Ed <edn4pk@voyageronline.net>
To: turnkey@exo.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [19447] Re: Sprint - questions
Message-ID: <35F19CCF.5383971C@voyageronline.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bob, tell me an approximate freq and time and we will try for a contact.
BTW hope you have/had gl on your cw test.
Ed W3NR
CW from beautiful downtown Chickamauga, Ga.
Qrp-1 #1307

Date: Sat, 5 Sep 1998 15:12:25 -0600 (MDT)
From: marion@montana.com
To: mnhopkins@juno.com
Cc: qrp-1@Lehigh.EDU
Subject: [19448] Re: QRPCers reflect mismatch
Message-ID: <199809052112.PAA00851@paw.montana.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 09:06 PM 9/3/98 -0700, you wrote:

>>
>>> So curb your tongue and be more
>>>thoughtfull in your criticism please. [sayeth a list member]
>>
>> Isn't that calling for QRPolitical Correctness? [my answer]
>>
>[then this arrives off mailer;]
>
>Ther problem with such pointed criticism is that most of us are not aware
>of the writer's skills and qualifications
>r
>Even the best kit can be screwed up by someone with minimal ability, and
>a
>"critical review" by that person is useless.
>
>Jack, W7PW
>
>[gosh folks, seems like your have some unresolved hostilities]
>
>72,3 de ab5L
>
>

And nor did he ask of my qualifacations. I did

state in my original post that I had been building kits since I was 13(now 43). No, I did not state my engineering education and 20 years in the electronics industry, because intelligent people are not always good kit builders. Einstein could not put his own small telescope together with out help. But I am a dedicated kit building hobbiest. I even have worked repairing kits that others have built that they can't get to work. I own my own electronics business now and continue to enjoy homebrewing and kitbuilding. The list of simple to complex projects I have built over the years is more than I can recall at one sitting. I could say that there are few kit companys that I have not made at least one of there kits. I can count 12 Ten-Tec kits here now. Some are well designed are work great. Some are not and don't. This is all tooting ones own horn. If you need some else's opinion, I have been selected as a K2 field tester. From the advanced kit builder with high level of technical knowlege catagory. Jack may not care about any of this. He seems ready to prejudge with out prior knowledge. So be it.
73/2 Roy AB7CE

Date: Sat, 5 Sep 1998 16:22:13 -0400 (EDT)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: "Jim Larsen (AL7FS)" <larsennc@alaska.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [19449] Re: Downtime at the UTK system
Message-ID: <Pine.GS0.3.96.980905161716.9534A-100000@moe.cas.utk.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Sorry for the occasional inconvenience, but my pages are on a university-wide unix system that the computer center takes down in pieces from time to time to do maintenance--usually a few hours about once per month. The alternative is to pay for a lot smaller space and not have room for all the "stuff." (I never get past the "pay" part of that sentence.) The messaaage they set in place is most often the "forbidden entry" one, making folks wonder if they need a special password. So far as I know, the password is "Try again a little later."

-73-

LB, W4RNL

L. B. Cebik, W4RNL	/\	/\	*	/	/	/	(Off)	(423)	974-7215
1434 High Mesa Drive	/	\	\	---	/	---	(Hm)	(423)	938-6335

Knoxville, Tennessee /\ \ \ \ / / || / (FAX) (423) 974-3509
37938-4443 USA / \ \ \ \ || cebik@utk.edu
URL: http://web.utk.edu/~cebik/radio.html

Date: Sat, 05 Sep 1998 20:29:43 GMT
From: nhoop@centuryinter.net (N H)
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [19450] Re: morse code as a foreign language?
Message-ID: <35fd9e94.28628086@mail.ot.centuryinter.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

>Yes it does, I see a lot of Hams in the area for the headaches and neck
>spasms from learning and listening to the code. Of course many are tone
>deaf and couldn't carry a tone if it were in a bushel basket.
>Why do I see them, you ask? Because I'm one of those real doctors, A
>Chiropractor.

He explained his problem quite neatly there(G).

Nat

Date: Sat, 05 Sep 1998 13:39:50 -0700
From: Dave Willey <dave@cds1.net>
To: pmbail01@ox.slug.louisville.edu
Cc: QRP-L <qrp-l@Lehigh.EDU>
Subject: [19451] Thoughts on 12V accessory plugs & connectors
Message-ID: <35F1A169.7A8F@cds1.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Paula & the list,

Stuff deleted,

Paula Bailey had said...

>..(assuming voltage and amperage are right, and we all
>know you should *always* assume... ;)

More stuff deleted....

>Offhand, semi-kind-a-in-a-way related--I do wonder, offhand, if there's any
>sort of standards as to the amperage used in *RV* accessory 12v jacks
>(this is not the "main" cigarette-lighter one; most RV's have at least two
>other 12v jacks for powering dual-power appliances such as coffee makers
>and TV's that can run on 12v or house-mains). If there is, it should at
>least in theory be possible to rig up a smallish power supply for QRP rigs
>or even, possibly, to use the commercial "cigarette lighter" adapters that
>will knock the voltage and/or amperage down to ~300mA at 9 or 12v. (Yes,
>I've had ideas for RV QRP for next year's trips, or maybe even this year's
>if my family goes on any more trips. ;)

>-pb

(WARNING FOR THE REALITY IMPAIRED!! I do work for a company that makes
H/D 12V locking cigarette-lighter style DC plugs & connectors, as well
as have a direct involvement in the R&D labwork for the same 12V plugs
& connectors. So If you want to get bent out of shape, hit your delete
key now....) My company name will remain off this post because I'm not
pushing my products, only reporting my findings from some R&D testing
I did.

OK, enough of covering my behind...

I run a R&D lab for a Marine Shore Power company & have first had
experience with many different 12V plugs and connectors, as well
as their installation. I'd like to comment on couple of items that
were brought up by Paula.

At least in the USA, there is NO official (UL or otherwise) amperage
or physical size rating standard for 12V plugs & connectors.

While developing our prototypes for testing in combination with
other manufacturer's 12V P&C's, It became very apparent that not
everything was interchangeable size wise, and that in all but one
or two cases "accessory" P&C's from places like Radio Shack,
Grand Auto, Napa Auto, etc would NOT handle more than a few amps
continuously. (<5A in most cases.)

We set a "standard" or benchmark for our tests that anything
that got to 125 degrees C or hotter after being under 100% duty

cycle for more than 30 minutes had failed. Everything would briefly take a momentary surge of 20A but only for 1 minute or so before it failed. Temp. was taken right at the P&C's with a thermocouple.

I have personally melted EVERYTHING from the above mentioned places to see what the "upper limits" were. I'll never use them for more than what my HT would draw. (Yes I get paid to destroy things! Great homebrewing job.)

Be very careful about running even semi-large loads in accessory type 12V connectors. Three weeks ago I replaced a dead 12V connector & wiring in a 32' cruising - type boat. The original connector was installed by the boat manufacturer in the upper flydeck and was fused for 30A below in the main cabin. No problem with that, except the builder had used a 24' run of very thin two conductor 18 ga. wire snaked all over the place to get to the fiberglass consol on the flybridge. When the boat owner had plugged a semi large load in the connector, the wire of course had melted long before the 30A fuse even got very warm. If it was my boat I'd go all over it and check wire size to make sure the boat didn't burn to the waterline from undersized wiring. Same with any RV's.

I tell people that customer service refers to me that anything above 15A should go to a H/D Molex connector with a fuse in each line right at the battery, say 12 pin. Divide the positive and negative lines over 6 pins each to distribute the load through the connector. Sure it's a hassle wiring it up, but it should never get hot enough to fail.

(Now for the QRP tie-in.)

Most 12V plugs and connectors will be OK for QRP power levels. We don't have a need to draw huge amounts of power, except for the portable fridge to keep the beer cold.....

72/3 de Dave - KD6KWM

--

Dave Willey

E-mail: dave@cads1.net

Amateur E-mail: kd6kwm@cads1.net

Amateur Packet: KD6KWM@KD6KWM.#NCA.CA.USA.NOAM

--

QRP-L #1567

Date: Sat, 05 Sep 1998 12:28:52 -0600
From: tom whalen <whalen@swcp.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [19452] Sprint??
Message-ID: <35F182E4.6EB7@swcp.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

QRP-Ler's!

I must have missed it! What Sprint is taking place today? Probably too late to work it now.

72, Tom WB5QYT

Date: Sat, 05 Sep 1998 15:43:57 -0500
From: Glen Reid <k5fx@flash.net>
To: QRP-1 <qrp-1@Lehigh.EDU>
Subject: [19453] Austin (TX) QRP Club Meeting Next Saturday 9/12
Message-ID: <35F1A28C.5865047A@flash.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

A QRP Club (Austin TX) will have its next irregular meeting Saturday, 9/12 at the Luby's, North Loop Blvd. at 11 AM.

There will be door prizes and no long speeches.

Check the AQRP Web page for directions and details.

<http://www.flash.net/~k5hgb/aqrp.html>

I hope to see you all there.

73 es dx

gr

--

GLEN REID

K5FX/M BGF

Austin...in the beautiful hill country of TEXAS...

Austin QRP Club # Pi

Email: k5fx@flash.net

Date: Sat, 5 Sep 1998 16:55:36 -0400 (EDT)
From: Chris Cartwright <ccart@dns.vidtel.com>
To: tom whalen <whalen@swcp.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [19454] Re: Sprint??
Message-ID: <Pine.LNX.3.93.980905165220.1077B-100000@dns.vidtel.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 5 Sep 1998, tom whalen wrote:

> I must have missed it! What Sprint is taking place today? Probably too

I hope not! Nort Americal CW Sprint, QST says 0000-0400Z 6-SEP-98 80, 40, 20 only, QSY rule, exchange: other call, ur call, serial#, name, qth. Work stations once per band. cu there.

-- Chris Cartwright, Technical Engineer | ccart@vidtel.com --
-- N3XRV ARRL-VE Norcal Zombie #163 | Gaithersburg, MD FM19je --
-- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271 --

Date: Sat, 05 Sep 1998 12:52:18 -0800
From: "Jim Larsen (AL7FS)" <larsennc@alaska.net>
To: Ed <edn4pk@voyageronline.net>, "qrp-1@lehigh.edu" <qrp-1@Lehigh.EDU>
Subject: [19455] Re: Update on Depth of Antenna Knowledge at W4RNL
Message-ID: <35F1A482.5E9B551B@alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Yep, worked just fine or I wouldn't have been able to tell you the depth of the material on the page. You are not the only one who can't get there. I can get there at 2045Z so maybe it is a network anomaly

(common cold?).

Good luck.

73, Jim, AL7FS
AK QRP #003

Ed wrote:

> Tried a reload and still get the "Forbidden" message. It worked just
> fine the other day ???
> Ed W3NR
> Qrp-l #1307

Date: Sat, 05 Sep 1998 17:06:59 -0400
From: Paul Helbert <phelbert@rica.net>
To: whalen@swcp.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [19456] Re: Sprint??
Message-ID: <35F1A7F3.694001B1@rica.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Nope, not too late. It the NA Sprint starts 0000z and runs 4 hours.
Details on pg. 103 September QST. Maybe someone knows a web page with
rules and will post that.

Hope to hear you there.

Paul, Wv3j

Date: Sat, 5 Sep 1998 14:21:29 -0700 (PDT)
From: Monte Stark <ku7y@dri.edu>
To: Paul Helbert <phelbert@rica.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [19457] Re: Sprint??
Message-ID: <Pine.SOL.3.96.980905142026.24573D-1000000@vortex>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 5 Sep 1998, Paul Helbert wrote:

> Maybe someone knows a web page with
> rules and will post that.

Check:

<http://www.waterw.com/~ncj/>

cu there.....

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Sat, 5 Sep 1998 15:29:36 -0600 (MDT)
From: af852@rgfn.epcc.edu (William R Colbert)
To: qrp-l@Lehigh.EDU
Subject: [19458] Re: Power Cable for TS130S? / B-17G
Message-ID: <199809052129.PAA13717@rgfn.epcc.edu>

Teh TU-9 was one of several tuning units available to change the tuning range of the BC-191 or BC375E transmitter. Used (I believe) a 211 triode in the final for about 100-150 watts, depending on altitude. The BC348 series receiver was a very good receiver, was a bit broad but with a Q-5er made a good receiver. Tuned 150-500, 1.5 to 18 Mhz (if was at 900 Khz) and the tuning range on the BC191 and BC375E was 2-18 Mhz. Various combinations of BC348/BC224/BC312/BC342 series receivers were used with different vehicles/aircraft with different types of transmitters such as the ARC5, in the B-25/B26 type aircraft and perhaps later in the B29. Good displays in the Smithsonian Air Museum also. Regarding QRP - there was a couple of articles in either SPRAT and/or Radio Communication a few years ago where a BC348 was slightly modified into a 5 watt transceiver for 160-17 meters.

--

Ray Colbert, W5XE
00TC 3618, SOWP 1064M
El Paso, Tx (FAR WEST TEXAS!)
also: w5xe@juno.com

Date: Sat, 05 Sep 1998 21:31:46 +0000
From: Hank Kohl K8DD <k8dd@contesting.com>
To: qrp-1@Lehigh.EDU
Subject: [19459] This is "Sprint" weekend!
Message-ID: <3.0.5.32.19980905213146.00a88430@192.0.0.1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Monday:
Take a look at <http://www.tir.com/~k8dd/rules97.htm>
The MI QRP Club Labor Day CW Sprint: 2300Z 09/07/98 to 0300Z 09/08/98.
For the GMT impaired, that is Monday September 7.
7:00 PM Eastern Time 6:00 PM Central Time etc, etc.

Tonight:
Take a look at <http://www.waterw.com/~ncj/sprints.htm>
The NCJ North American Sprint: September 1998: CW 0000 - 0400Z Sept 6
(Saturday night, September 5 local) That is tonight - 8 PM Eastern.

Both web sites have the full rules. The NCJ NA Sprint has a QSY rule
that gets you twisting the VFO knob! You can't (or they can't) just
sit there and run!

73 Hank K8DD

*/ Hank Kohl K8DD k8dd@contesting.com
*/ ARRL TS <http://www.tir.com/~k8dd>
*/ MI-QRP - Vice Pres. QRP-ARCI - Director
*/ G-QRP ARRL/LM QCWA/LM QCAO/LM

Date: Sat, 5 Sep 1998 17:12:49 -0500
From: "Randy Jouett" <nop@swbell.net>
To: <w5yr@swbell.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [19460] Re: transistor books
Message-ID: <005f01bdd91a\$52c0dc30\$210aa8c0@aldebran>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: George T. Baker <w5yr@swbell.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Saturday, September 05, 1998 2:07 PM
Subject: Re: transistor books

>Further to Chris' point, so many people who visit engineering at the
"hobby"
>level seem to forget that this stuff is NOT SIMPLE and no amount of wishing
> or analogies is going to make it so. It takes a lot of non-trivial math to
model
>circuit and device behavior in order to allow a meaningful analysis to
produce
>useful quantitative results.

I hope you're not talking about the math in SSD, because that stuff is
mega-trivial
and something we all should have learned in the 8th grade!

Anyway, I hope that I didn't come across as a person complaining about
the
technical aspects of engineering. Hell, the more technical the better, as
far as I'm concerned. Bring on the math, chemistry, and physics. HOWEVER,
as far as technical, amateur-radio books are concerned, the "masses" don't
need to delve into differential equations, finite-math theory,
thermodynamics, brownian motion, Hisenberg's Uncertainty Principal, Planks
Constant, or other unnecessary BS. They're just interested in building
radios
and other station accessories, and if they want to dive deeper into
electronics and RF, they'll go to school and major in engineering or read
their butts off.

>Engineering is NOT just an "understanding" of or a way of looking at
>circuit behavior based on analogical concepts. That level of understanding
is
>useful, interesting and all that is needed for many purposes, particularly
in hobby
>activities. However, when it comes time to "do the real thing" and produce
>quantitative results that can lead to the production and application of
>devices and systems, then the heavy iron comes into play.

True. OTOH, please don't make engineering look and sound like the do-all and be-all that it isn't. It's remarks like this that potential non-engineer rig designers look at, and when they look at solid state design or intro to rf design with this attitude drilled into their heads they'll say, "Hmmm. Well, those engineering dudes on qrp-l said you have to be an engineer to design a rig and build the thing into a marketable product that performs well." Complete and utter BS!!! Why not a comment like, "Well, RF engineering is a tough subject that is not easily sugar coated, but a few of the diligent and resourceful hams out there could teach themselves enough RF engineering and create fine-biz amateur rigs that they might possibly sell or publish in a magazine." If it was easy to sugar coat and dress up technical information, a LOT more people out there would be doing it. A lot of people try; few succeed. Oh...and you'll also note that the "great authors" (pick the subject) are the ones that pulled this off flawlessly. HMMMMM.

>Yes, there are some "awful" texts out there. Many writers can't see beyond
> the math and their own experiences. Then, there are excellent authors such
>as LB Cebik who have learned how to "sugar coat" certain topics and get
>across the main points with only limited math. But, the key point is that
LB
>didn't learn that way, taking the shortcuts and the sugar-coated texts.

Good for him, and I didn't either. However, when it comes to RF, I'm a complete bozo, and I want all the "sugar coating" I can lay my hands on, thank you very much. As a matter of fact, I want sugar coating in post-grad text. This might be a lot to ask for, but, as I said before, an author that truly knows his subject matter and is truly gifted in writing can make _anything_ seem simple, no matter who is target audience is.

>So, the next time you are tempted to complain because an article or a text
>seems out of line with its complexity and use of math, stop and think about
>the purpose of the article or text: is it intended to introduce/entertain a
>certain topic, or is it intended to provide a solid grounding in the
subject area?

Well, I never complained about this. As a matter of fact, I was complimenting Doug and Wes on their abilities to "sugar coat" for the masses. I read techno-geek documents a hell of a lot more sophisticated than intro to rf and solid state design on a daily basis, and I thought that it was nice to see a semi-technical book written with good grammar, sequential

thought processes, and explanations which could be easily understood by many amateurs. You'll also note that I asked for more technical information on the nitty-gritty details of the transistor. [Hell, I want to know about the internal capacitance and inductance of a P-N junction and the way certain dopants chemically react at rf frequencies, especially with the new neutrino theories running around. Also, could calculating a neutrino's mass and inserting this information in known xray-lithographic formulas lead to increased density in VLSI devices or set up some kind of boundary that we can't get past. That's what I want to know about. :^)].

>The very best example of authors successively straddling the fence between
>popular prose and adequate engineering exposition is "The Art
ofElectronics"
> by Horowitz and Hill. It is a must-read for anyone interested in this
general
>subject. Really not enough math to answer the needs of the professional,
>but that is not the intended reader.

Haven't read it yet, George, but plan on picking it up at Barnes and Noble. Saw it on the shelf the other day, but didn't even bother to pick it up. I had another book on my mind called Solid State Design :^).

73's,

Randy AB5NI
nop@swbell.net

Date: Sat, 05 Sep 1998 16:24:12
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-1@Lehigh.EDU
Subject: [19461] Rateing your antenna building skills.
Message-ID: <3.0.3.16.19980905162412.2d57789c@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Here's a way to rate your antenna construction skills.
Feel free to add to the list

Start with 100 points

Start the clock:

- 1: Deduct 10 points if required tools can not all be found in 10 minutes.
- 2: Deduct 10 points if required materials can not be found in 15 minutes.
- 3: Deduct 15 points for trip to Hardware store or Radio Shack for required tools, materials or hardware that can't be found but you know you have somewhere.
- 4: Deduct 25 points for each additional trip to hardware store or Radio Shack because you forgot something or needed to get more money.
- 4a: Deduct 25 points if stores are closed when you get there.
- 5: Deduct 10 points for minor injuries incurred during an installation or using tools.
- 6: Deduct 25 points for injuries requiring trip to emergency room or call to 911
- 7: Deduct 10 points if not finished by dark
- 8: Deduct 10 points if outdoor temp below 40 or above 90 degrees
- 9: Deduct 10 points for wind speeds over 20 mph.
- 10: Deduct 10 points if raining or snowing.
- 11: Deduct 10 points if SWR isn't below 2:1 somewhere in the band.
- 12: Deduct 25 points if you don't make a QSO in 3 days after all that work.

72,

Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Sat, 05 Sep 1998 14:51:13 -0800
From: "Jim Larsen (AL7FS)" <larsennnc@alaska.net>
To: "qrp-l@lehigh.edu" <qrp-l@Lehigh.EDU>
Subject: [19462] 2250Z, 15 mtrs is open and nobody will answer me.
Message-ID: <35F1C061.A8573256@alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

2250Z, 15 mtrs is open and nobody will answer me. Sniff....

AL7FS

End of QRP-L Digest 1205
